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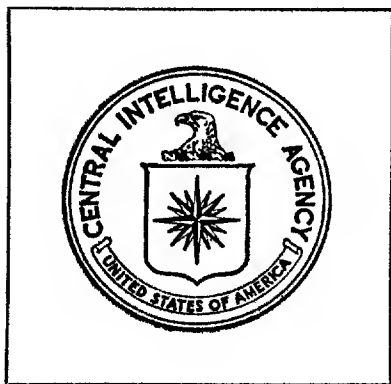
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World Oil Refineries

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World Oil Refineries

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WORLD OIL REFINERIES

Basic Facts on Ownership of World Oil Refineries

The seven major international oil companies own 24.7 million barrels per day (b/d) of refining capacity, or about 45% of that outside the Communist countries. The crude oil production of these seven companies now makes up about 65% of the total in the same area. This share is expected to decline substantially as governments increase direct ownership.

Smaller international oil companies, domestic oil companies, and independent refiners own about 40% of refinery capacity. These international companies generally own both refining and crude oil producing facilities. Although a few have more crude production than refining capacity, most of them must buy at least part of their oil from the majors or producing governments. The independent refiners are not producers and must enter the market for crude oil. Japan, with about 30 such companies, and Italy with 15 are important participants in this market.

OPEC governments own only 1.9 million b/d - or about 3%—of refining capacity. Their share will increase in coming years, as they are encouraging the construction of substantial additional capacity. Non-OPEC governments own about 12% of the total and are an active force in the market for government-owned crude oil. Brazil's Petrobras has been searching worldwide for crude oil, and the French have been seeking government-to-government deals with OPEC countries to guarantee their supplies. Some governments, such as Mexico, are relatively inactive in the market because domestic production largely satisfies demand.

US companies occupy a commanding position in worldwide ownership of oil refineries with a capacity of nearly 27 million b/d, or almost 50% of the non-Communist total. The five US international majors alone own 30%. Although US companies are most dominant in the United States, where they own 95% of the capacity, they also own almost 35% of the total outside the United States, including other major consuming markets in Western Europe, about 30%; Japan, about 20%; and Canada, 55%.

The reader should note that all the tables on company refining capacity were calculated on the basis of equity ownership. The seven international majors' parent companies own about 45% of the refining capacity under their control, but their crude oil supply commitments greatly exceed that amount. Several majors own controlling equity in refineries in which minority shares are held by the public or local governments. In these cases, the majors provided most of the crude oil. In many refineries the majors have only part equity ownership, but have supply contracts for all the crude oil. Under Japanese law, for example, local interest must own at least 50% equity in domestic refineries. Japan has refining capacity of about 5 million b/d, of which the majors have a 1 million b/d equity share. They supply not only virtually all of the crude oil for jointly used refineries but also about 70% of all Japanese imports of crude oil.

World oil refining capacity continues to grow in accordance with demand projections made before the huge oil price increases. In the short term, plans are largely fixed. Some 4 million b/d of capacity is expected to come on stream in Free World countries this year, raising the total by about 7.5%.

World Crude Oil Refining Capacity

1 January 1974

	Thousand b/d	Percent of Total
Total	64,591.1	100.0
Eastern hemisphere	41,353.8	64.0
Middle East	3,119.5	4.8
Saudi Arabia	676.0	1.0
Iran	660.0	1.0
Kuwait	566.0	0.9
Turkey	305.5	0.5
Bahrain	250.0	0.4
Iraq	168.5	0.3
Other	493.5	0.8
Africa	1,104.7	1.7
South Africa	331.0	0.5
Egypt	180.0	0.3
Other	593.9	0.9
Asia-Pacific	8,920.3	13.8
Japan	5,151.8	8.0
Singapore	699.6	1.1
Australia	681.0	1.1
India	499.1	0.8
Indonesia	427.7	0.7
South Korea	420.0	0.7
Other	1,041.1	1.6
Western Europe	18,109.3	28.0
Italy	3,880.6	6.0
France	3,140.0	4.9
West Germany	2,825.7	4.4
United Kingdom	2,762.1	4.3
Netherlands	1,825.5	2.8
Spain	1,163.0	1.8
Belgium	817.3	1.3
Greece	313.6	0.5
Sweden	248.0	0.4
Denmark	226.5	0.4
Austria	220.0	0.3
Finland	196.0	0.3
Norway	168.0	0.3
Switzerland	140.0	0.2
Portugal	110.0	0.2
Ireland	58.0	0.1
Cyprus	15.0	Negl.
Communist countries	10,100.0	15.6
USSR	7,000.0	10.8
Eastern Europe	1,600.0	2.5
Other	1,500.0	2.3
Western hemisphere	23,237.3	36.0
North America	16,718.6	25.9
United States	14,216.3	22.0
Canada	1,877.3	2.9
Mexico	625.0	1.0
Latin America	6,518.7	10.1
Venezuela	1,531.6	2.4
Netherlands Antilles	945.0	1.5
Brazil	791.8	1.2
Argentina	623.6	1.0
Virgin Islands	590.0	0.9
Bahamas	500.0	0.8
Trinidad and Tobago	461.0	0.7
Other	1,075.7	1.7

Ownership of World Oil Refining Capacity ¹
1 January 1974

Company	Crude Capacity (Thousand b/d)	Percent of Total	Company	Crude Capacity (Thousand b/d)	Percent of Total
Total	54,490	100.00	Independents (Continued)		
International "Majors"	24,740	45.40	Murphy (US)	130	0.24
Exxon (US)	6,535	11.99	Union Rhein (West German)	125	0.23
Royal Dutch/Shell (UK 40%, Netherlands 60%)	5,370	9.86	Occidental (US)	110	0.20
Texaco (US)	3,075	5.64	Clark (US)	105	0.19
British Petroleum (UK)	2,825	5.18	Koch	105	0.19
Mobil (US)	2,505	4.60	Shaheen (US)	105	0.19
Standard Oil (California) (US)	2,465	4.52	Niarchos (Greek)	100	0.18
Gulf (US)	1,965	3.61	Crown Central Petroleum	100	0.18
Independents	21,565	39.58	South Western Oil & Re- fining	100	0.18
Japanese (30 companies)	4,030	7.40	Other	2,065	3.79
Italian (15 companies)	2,165	3.97	Government	8,185	15.02
US (132 companies)	1,890	3.47	OPEC	1,885	3.46
Standard Oil (Indiana) (US)	1,150	2.11	Iran	675	1.24
CFP (35% French govern- ment owned)	1,065	1.95	Indonesia	430	0.79
Atlantic Richfield (US)	790	1.45	Kuwait	265	0.49
Amerada-Hess (US)	690	1.27	Iraq	170	0.31
Spanish (6 companies)	670	1.23	Saudi Arabia	160	0.29
Sun (US)	550	1.01	Algeria	115	0.21
Petrofina (Belgian)	505	0.93	Other	70	0.13
Union Oil (US)	495	0.91	Non-OPEC	6,300	11.56
Phillips (US)	485	0.89	Italy	790	1.45
Marathon (US)	460	0.84	Brazil	745	1.37
Getty (US)	440	0.81	France	730	1.34
Continental (US)	405	0.74	Mexico	625	1.15
Ashland (US)	360	0.66	Argentina	380	0.70
Shell (US)	345	0.63	India	280	0.51
New England Petroleum (US)	325	0.60	West Germany	275	0.50
Standard Oil (Ohio) (US)	315	0.58	Spain	240	0.44
Cities Service (US)	270	0.50	Austria	220	0.40
Gelsenberg (West German)	215	0.39	Israel	210	0.39
Commonwealth (US)	185	0.34	Taiwan	200	0.37
Wintershall (West German)	175	0.32	Finland	195	0.36
Champlin (US)	140	0.26	Egypt	180	0.33
Ultramar (US)	140	0.26	Turkey	130	0.24
Aminoil (US)	130	0.24	Chile	125	0.23
Coastal States (US)	130	0.24	Colombia	110	0.20
			Peru	105	0.19
			Greece	100	0.18
			Other	660	1.21

¹ Excluding data for the Communist countries.

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Area Refining Capacity, by Refinery and Ownership

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
MIDDLE EAST	3,119.5		
Bahrain	250.0		100.00
Awali	250.0	50% —Standard Oil (Calif.) 50% —Texaco	100.00
Iran	660.0		100.00
Abadan	430.0	Gov't	65.15
Kermanshah	15.0	Gov't	2.27
Masjid Sulaiman	75.0	Gov't	11.36
Shiraz	40.0	Gov't	6.06
Tehran	100.0	Gov't	15.15
Iraq	168.5		100.00
Abu Fulus	70.0	Gov't	41.54
Al Hadithah	7.0	Gov't	4.15
Daura	71.0	Gov't	42.14
Khanaqin	12.0	Gov't	7.12
Muftiyah	4.5	Gov't	2.67
Mosul	2.0	Gov't	1.19
Kirkuk	2.0	Gov't	1.19
Israel	212.0		100.00
Ashdod	72.0	Gov't	33.96
Haifa	140.0	Gov't	66.04
Jordan	14.1		100.00
Zerqa	14.1	Local	100.00
Kuwait	566.0		100.00
Mena Abd Allah	132.0	Aminoil	23.32
Shuaybah	134.0	60% — Gov't	23.67
Mana al Ahmadi	300.0	40% — Local 20% — Gulf 20% — British Petroleum 60% — Government	53.00
Lebanon	53.5		100.00
Tripoli	36.0	Gov't	67.29
Sidon	17.5	25% — Standard Oil (Calif.) 25% — Texaco 50% — Mobil	32.71
Qatar	0.6		100.00
Musayid	0.6	Gov't	100.00
Saudi Arabia	676.0		100.00
Ras Al Khafji	30.0	80% — Japan 10% — Kuwait 10% — Saudi Arabia	4.44
Mina Suud	50.0	Getty	7.40
Ras Tunura	534.0	25% — Gov't 22.5% — Standard Oil (Calif.) 22.5% — Texaco 22.5% — Exxon 7.5% — Mobil	86.39
Jidda	12.0	Gov't	1.78
South Yemen	162.0		100.00
Little Aden	162.0	British Petroleum	100.00
Syria	51.3		100.00
Homs	51.3	Gov't	100.00
Turkey	305.5		100.00
Mersin	90.0	17% — British Petroleum 56% — Mobil 27% — Royal Dutch/Shell	29.46
Izmit	130.0	Gov't	42.55

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
MIDDLE EAST (Continued)			
Turkey (Continued)			
Aliaga-Izmir	62.7	Domestic	20.52
Batman	22.8	Domestic	7.46
AFRICA	1,104.9		100.00
Algeria	115.3		100.00
Arzew	54.6	Gov't	47.35
El Borma	0.6	Gov't	0.52
Hassi Messaoud	3.1	Gov't	2.69
Maison Carree	57.0	Gov't	49.44
Angola	24.5		100.00
Cabinda	2.8	Gulf	11.43
Luanda	21.7	59%—Petrofina 41%—Gov't	88.57
Egypt	180.0		100.00
El Amiriya	26.0	Gov't	14.44
Mex	120.0	Gov't	66.67
Tanta	14.6	Gov't	8.11
Others	19.4	Gov't	10.78
Ethiopia	14.4		100.00
Assab	14.4	Gov't	100.00
Gabon	17.0		100.00
Port Gentil	17.0	25%—various African Gov't 18.75%—CFP 18.75%—ELF Union Group 11.66%—Mobil 5.6%—Texaco 11.39%—Royal Dutch/Shell 3.08%—British Petroleum 2.5%—AGIP/ENI 3.3%—Petrofina	100.00
Ghana	25.3		100.00
Tema	25.3	ENI	100.00
Ivory Coast	44.2		100.00
Abidjan	44.2	7.9%—Texaco 14.7%—Royal Dutch/Shell 18.2%—Mobil 10.2%—British Petroleum 13%—CFP 25%—ELF Union 10%—Gov't 1%—Exxon	100.00
Kenya	48.0		100.00
Mombasa	48.0	50%—Gov't 12.75%—Exxon 12.75%—Royal Dutch/Shell 12.75%—British Petroleum 5.8%—Standard Oil (Calif.) 5.8%—Texaco	100.00
Liberia	10.0		100.00
Monrovia	10.0	67%—Exxon 33%—Other	100.00
Libya	16.4		100.00
Nafuora	1.8	Gov't	10.98
Masa El Brega	8.0	Exxon	48.78
Amal	1.8	Mobil	10.98
Istisar	1.8	Mobil	10.98
Zeutina	3.0	Gov't	18.29

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Capacity (Thousand b/d)	Ownership	Percent of Total
AFRICA (Continued)			
Malagasy Republic	14.0		100.00
Tamatave	14.0	15%—Gov't 35%—ELF 7.5%—CFP 6.1%—Socal 6.1%—Texaco 13.7%—Exxon 6.4%—Royal Dutch/Shell 6.4%—British Petroleum 3.8%—AGIP/ENI	100.00
Morocco	58.6		100.00
Sidi Kacem	8.6	50%—French Gov't 50%—Mor. Gov't	14.68
Mohammedia	50.0	50%—ENI 50%—Gov't	85.32
Mozambique	17.0		100.00
Salazar	17.0	75.5%—Port. Oil Co. 24.5%—CFP	100.00
Nigeria	60.0		100.00
Port Harcourt	60.0	60%—Gov't 20%—British Petroleum 20%—Royal Dutch/Shell	100.00
Senegal	18.0		100.00
Dakar	18.0	10%—Nat. Bank 11.8%—CFP 24%—ELF Union 6%—Other 11.8%—Mobil 11.8%—Texaco 11.8%—Royal Dutch/Shell 11.8%—British Petroleum 1%—Exxon	100.00
Sierra Leone	10.0		100.00
Freetown	10.0	17.75%—Royal Dutch/Shell 10.8%—Texaco 11.3%—Mobil 50%—Gov't 6.9%—British Petroleum 3.3%—AGIP/ENI	100.00
Sudan	22.0		100.00
Port Sudan	22.0	50%—Royal Dutch/Shell 50%—British Petroleum	100.00
Tanzania	17.0		100.00
Dar es Salaam	17.0	50%—ENI 50%—Gov't	100.00
Tunisia	21.4		100.00
Bizerte	21.4	50%—ENI 50%—Gov't	100.00
Union of South Africa	331.0		100.00
Cape Town	46.0	50%—Standard Oil (Calif.) 50%—Texaco	13.90
Durban	60.0	Mobil	18.13
Sasolburg	50.0	52.5%—So. Africa Coal & Gas Co. 17.5%—National Iranian Oil Co. 30%—Total	15.11
Boksburg North	3.0	Local	0.91
Puritan Durban	172.0	50%—Royal Dutch/Shell 50%—British Petroleum	51.96

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
AFRICA (Continued)			
Zaire	16.2		100.00
Muando	16.2	50%— ENI 50%— Gov't	100.00
Zambia	24.6		100.00
Ndola	24.6	50%—ENI 50%—Gov't	100.00
ASIA/PACIFIC	8,920.3		100.00
Australia	681.0		100.00
Bulwer Island	25.0	Standard Oil (Ind.)	3.67
Lytton	60.0	Domestic	8.81
Kurnell	132.0	50%— Standard Oil (Calif.) 50%— Texaco	19.38
Westernport	54.6	British Petroleum	8.02
Kwinana	98.7	British Petroleum	14.49
Adelaide	45.0	65%— Mobil 35%—Exxon	6.61
Altona	98.6	65%—Mobil 35%—Exxon	14.48
Clyde	55.0	Royal Dutch/Shell	8.08
Geelong	92.0	Royal Dutch/Shell	13.51
Matraville	20.0	Total/CFP	2.94
Bangladesh	30.6		100.00
Chittagong	30.6	70%—Local 30%—Burmah	100.00
Brunei-Malaysia	123.2		100.00
Lutong	60.0	Royal Dutch/Shell	48.70
Port Dickson	32.2	Exxon	26.14
Port Dickson	31.0	75%—Royal Dutch/Shell 25%— Public	25.16
Burma	25.3		100.00
Chauk	6.1	Gov't	24.11
Syriam	19.2	Gov't	75.89
Chinese Republic (Taiwan)	210.0		100.00
Kaohsiung	11.0	Gulf	5.24
Kaohsiung	199.0	Gov't	94.76
Guam	29.5		100.00
Agana	29.5	Guam Oil & Refining Co.	100.00
India	499.1		100.00
Digboi	12.1	Burmah Oil	2.42
Bombay	110.0	50%—Burmah 50%— Royal Dutch/Shell	22.04
Visakhapatnam	32.0	50%—Standard Oil (Calif.) 50%—Texaco	6.41
Cochin	53.5	52.4%—Gov't 26.4%—Phillips 21.2%—Others	10.72
Bombay	70.0	26%—Exxon 74%—Gov't	14.03
Barauni	48.0	Gov't	9.62
Baroda	82.0	Gov't	16.43
Gauhati	16.0	Gov't	3.21
Bombay	19.5	26%—Exxon 74%—Gov't	3.91
Madras	56.0	74%— Gov't 13%—National Iranian Oil Co. 13%—Standard Oil (Ind.)	11.22

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
ASIA/PACIFIC (Continued)			
Indonesia	427.7		100.00
Balikpapan	75.0	Pertamina	17.54
Central Sumatra	100.0	Pertamina	23.38
Central Sumatra	50.0	Pertamina	11.69
Brandan	4.5	Pertamina	1.05
South Sumatra	111.2	Pertamina	26.00
Sungei Gerong	79.0	Pertamina	18.47
East Java	4.0	Lemigas	0.94
East Java	4.0	Pertamina	0.94
Japan	5,151.8		100.00
Mainland	4,939.8		100.00
Hakodate	23.8	Domestic	0.48
Sakaide	57.0	Domestic	1.15
Yokohama	95.0	Domestic	1.92
Yokkaichi	187.0	Domestic	3.79
Kainan	77.6	Domestic	1.57
Chiba	133.0	Domestic	2.69
Kawasaki	52.3	50% -- Exxon 50% -- Domestic	1.06
Sakai	114.0	50% -- Exxon 50% -- Domestic	2.31
Chiba	310.0	Domestic	6.28
Hokkaido	70.0	Domestic	1.42
Hyogo	110.0	Domestic	2.23
Tokuyama	140.0	Domestic	2.83
Sakai	110.0	Domestic	2.23
Kashima	180.0	Domestic	3.64
Marifu	141.5	25% -- Standard Oil (Calif.) 25% -- Texaco 50% -- Domestic	2.86
Osaka	76.0	25% -- Standard Oil (Calif.) 25% -- Texaco 50% -- Domestic	1.54
Chiba	97.0	50% -- Mobil 50% -- Domestic	1.96
Ohita	95.0	Domestic	1.92
Chiba	195.0	Domestic	3.95
Matsuyama	50.0	Domestic	1.01
Shimotsu	37.5	Domestic	0.76
Kawasaki	105.0	50% -- Getty 50% -- Domestic	2.13
Mizushima	220.0	50% -- Getty 50% -- Domestic	4.45
Kawasaki	96.0	Domestic	1.94
Toyama	60.0	Domestic	1.21
Funakawa	13.4	Domestic	0.27
Mizushima	222.3	Domestic	4.50
Niigata	26.0	Domestic	0.53
Kudamatsu	42.0	25% -- Standard Oil (Calif.) 25% -- Texaco 50% -- Domestic	0.85
Muroran	110.0	25% -- Standard Oil (Calif.) 25% -- Texaco 50% -- Domestic	2.23
Negishi	330.0	25% -- Standard Oil (Calif.) 25% -- Texaco 50% -- Domestic	6.68

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
ASIA/PACIFIC (Continued)			
Japan (Continued)			
Mainland (Continued)			
Yokohama	70.0	25%—Standard Oil (Calif.) 25%—Texaco 50%—Domestic	1.42
Onoda	100.0	20%—Royal Dutch/Shell 80%—Domestic	2.02
Kawasaki	137.0	50%—Royal Dutch/Shell 50%—Domestic	2.77
Niigata	37.0	50%—Domestic	0.75
Yokkaichi	240.0	50%—Royal Dutch/Shell 75%—Domestic	4.86
Kikuma	56.0	Domestic	1.13
Kubiki	4.4	Domestic	0.09
Kawasaki	190.0	25%—Exxon 25%—Mobil 50%—Domestic	3.85
Shimizu	41.3	25%—Exxon 25%—Mobil 50%—Domestic	0.84
Wakayama	177.7	25%—Exxon 25%—Mobil 50%—Domestic	3.60
Chita	100.0	Domestic	2.02
Kawasaki	100.0	Domestic	2.02
Owase	40.0	Domestic	0.81
Sendai	70.0	Domestic	1.42
Okinawa	212.0		100.00
Nishihara	93.0	50%—Exxon 50%—Domestic	43.87
Ieianza Island	94.0	50%—Gulf Asian Investment Co. Ltd. 50%—Domestic	44.34
Nakagusuku	25.0	Domestic	11.79
New Zealand	54.0		100.00
Whangarei	54.0	5.5%—Standard Oil (Calif.) 18.5%—Mobil 24.0%—British Petroleum 17.0%—Royal Dutch/Shell 5.5%—Texaco 29.5%—Local	100.00
Pakistan	80.5		100.00
Rawalpindi	11.6	27%—Burmah 73%—Gov't	14.41
Korangi	13.9	Gov't & Local	17.27
Karachi	55.0	15%—Burmah 15%—Royal Dutch/Shell 18%—Exxon 5.5%—Standard Oil (Calif.) 5.5%—Texaco 40%—Gov't	68.32
Philippines	283.8		100.00
Limay	112.0	57%—Exxon 43%—Mobil	39.46

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
ASIA/PACIFIC (Continued)			
Philippines (Continued)			
Batangas	70.0	50%—Standard Oil (Calif.) 50%—Texaco	24.67
Rosario	33.8	Local	11.91
Batangas	68.0	75%—Royal Dutch/Shell 25%—Public	23.96
Singapore	699.6		100.00
Pasir Panjang	24.6	British Petroleum	3.52
Pulau Ayer Chawan	150.0	Exxon	21.44
Jurong	175.0	Mobil	25.01
Pulau Bukom	350.0	Royal Dutch/Shell	50.03
South Korea	420.0		100.00
Yosu	160.0	50%—Local 25%—Standard Oil (Calif.) 25%—Texaco	38.10
Ulsan	210.0	50%—Gov't 50%—Gulf	50.00
Inchon	50.0	50%—Union 50%—Local	11.90
Sri Lanka	38.0		100.00
Sapugaskanda	38.0	Gov't	100.00
Thailand	166.2		100.00
Bangkok	65.0	Gov't	39.11
Chieng Mai	1.2	Gov't	0.72
Sriracha	35.0	Exxon	21.06
Sriracha	65.0	70%—Local 30%—Royal Dutch/Shell	39.11
WESTERN EUROPE			
	18,109.3		
Austria	220.0		100.00
Schwechat	220.0	Occ. MV (Gov't.)	100.00
Belgium	817.3		100.00
N. Antwerp (Albatros)	60.0	SAB	7.34
Ghent	9.4	Royal Dutch/Shell	1.15
Antwerp	95.0	Exxon	11.62
Antwerpe-Kiel	4.9	International Oil (BP)	0.60
Antwerp	304.9	SIBP 50%—Petrofina 50%—BP	37.31
Ghent	140.0	Texaco	17.13
Antwerp	98.0	85%—Occidental 15%—Others	11.99
Feluy	105.0	Standard Oil (Calif.)	12.85
Cyprus	15.0		100.00
Larnaca	15.0	Cyprus Petroleum Ref. Ltd 35%—Govt 20%—Mobil 15%—Royal Dutch/Shell 15%—BP 15%—Petrofina	100.00
Denmark	226.5		100.00
Fredericia	59.0	Royal Dutch/Shell	26.05
Kalundborg	73.0	Exxon	32.23
Skaelskor	94.5	Gulf	41.72
Finland	196.0		100.00
Naantali	56.0	Neste Oy (Gov't)	28.57
Porvoo	140.0	Neste Oy (Gov't)	71.43
France	3,140.0		100.00
Valenciennes	62.0	Antar (Gov't)	1.97

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
WESTERN EUROPE (Continued)			
France (Continued)			
Donges	143.0	Antar (Gov't)	4.55
Vern (Rennes)	26.0	Antar (Gov't)	0.83
Grandpuits Mormant	72.0	78%—ELF-Union 11%—Standard Oil (Calif.) 11%—Texaco	2.29
Gonfreville L'Oreher	484.0	CFP	15.41
La Mede	212.0	CFP	6.75
Berre (NrMarseilles)	285.0	86%—Royal Dutch/Shell 14%—Public	9.08
Pauillac	90.0	86%—Royal Dutch/Shell 14%—Public	2.87
Petit Couronne	180.0	86%—Royal Dutch/Shell 14%—Public	5.73
Reichstett	75.0	48%—Royal Dutch/Shell 15%—Texaco 15%—Standard Oil (Calif.) 10%—ELF 5%—Mobil 7%—Public	2.39
Feyzin	164.0	ELF Union (Gov't)	5.22
Gargenville	118.0	ELF Union (Gov't)	3.76
Port Jerome	150.0	63.2%—Exxon 36.8%—Public	4.78
Bordeau	58.0	63.2%—Exxon 36.8%—Public	1.85
Fos-sur-Mer	170.0	63.2%—Exxon 36.8%—Public	5.41
Gravenchon	72.5	Mobil	2.31
Frontignan	120.0	Mobil	3.82
Dunkirk	113.8	70%—British Petroleum 30%—Public	3.62
Lavera	235.7	70%—British Petroleum 30%—Public	7.51
Vernon	70.1	70%—British Petroleum 30%—Public	2.23
Strasbourg	92.0	33 $\frac{1}{3}$ %—British Petroleum 33 $\frac{1}{3}$ %—CFP 33 $\frac{1}{3}$ %—Antar	2.93
Hauecourt	105.0	51%—CFP 40%—Exxon 9%—ELF	3.34
Ambes	42.0	60%—ELF 20%—Standard Oil (Calif.) 20%—Texaco	1.34
Greece	313.6		100.00
Corinth	40.0	Nicos Vardinoyannis & Assoc.	12.76
Thessaloniki	76.0	Thess Ref. (Exxon)	24.23
Aspropygos (Megara)	97.6	Hellenic Pet. (Gov't)	31.12
Elefsis	100.0	Niarchos	31.89
Ireland	58.0		100.00
Whitegate	58.0	Irish Refining 24%—Royal Dutch/Shell 40%—Exxon 20%—Texaco 16%—British Petroleum	100.00

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
WESTERN EUROPE (Continued)			
Italy	3,880.6		100.00
Cremona	78.0	Standard Oil (Ind.)	2.01
Gela (Sicily)	92.0	ENI	2.37
Sannazzaro d' Burgondi	120.0	ENI	3.09
Falconara, Ancona	81.0	API	2.09
Trieste	50.0	CFP	1.29
Edoardo, Genoa	147.0	Garrone	3.79
Gaeta	39.9	Getty	1.03
Bertonico	73.0	Gulf	2.01
Mantova	65.0	CFP	1.68
Como	7.9	ILSEA	0.20
Porto Marghera	110.0	49%—Monti Group 51%—ENI	2.83
Sarissola (Genoa)	31.2	IPLOM	0.80
Villasanta (Milan)	23.5	Lombaroa Pet.	0.61
Milazzo (Sicily)	505.0	Mediterranean	13.01
Brindisi	41.8	Montesud	1.08
Milan	12.0	Nilo, Liquichima SpA	0.31
Naples	130.0	Mobil	3.35
Rome	80.3	72%—Petrofina 20%—CFP 8%—Standard Oil (Calif.)	2.07
(Sarroch) Cagliari (Sardinia)	360.0	Saras	9.28
Augusta (Sicily) Siracusa	210.0	Exxon	5.41
San Quirico, Genoa	32.5	San Quirico	0.84
Porto Torres (Sardinia)	118.8	Sardoil	3.06
La Spezia	90.0	ENI	2.32
Rho	75.0	ENI	1.93
Taranto	90.0	ENI	2.32
Priolo	313.5	Sincat (Montecalina Edison)	8.08
Ravenna	332.0	Sarom	8.56
Bari	105.0	Stanic 50%—Exxon 50%—ENI	2.71
Leghorn	115.0	Stanic 50%—Exxon 50%—ENI	2.96
Novara	235.0	Sarpom 64%—Exxon 26%—Standard Oil (Calif.) 10%—Texaco	6.06
Volpiano	72.8	Volpiano Refinery Co.	1.88
Areola (La Spezia)	18.4	SP1 55%—Phillips 45%—Others	0.47
San Quirico, Genoa	20.0	Raffineria Delloplane SpA	0.52
Netherlands	1,825.5		100.00
Oost Voorne (Rotterdam)	475.0	British Petroleum	26.02
Pernis	300.0	68.4%—Standard Oil (Calif.) 31.6%—Texaco	16.43
Rotterdam	325.0	Exxon	17.80
Rozenburg	94.0	Gulf	5.15
Amsterdam	125.0	Mobil	6.85
Amsterdam	6.5	N.V. Smid & Holl.	0.36
Pernis	500.0	Royal Dutch/Shell	27.39
Norway	168.0		100.00
Tonsberg-Slagen	110.0	Exxon	65.48
Valloy	3.0	Exxon	1.79
Risvika (Sola)	55.0	Royal Dutch/Shell	32.74

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
WESTERN EUROPE (Continued)			
Portugal	110.0		100.00
Lisbon (Cabo Ruivo)	40.0	Sacor 9%—CFP 5%—Mobil 33 $\frac{1}{3}$ %—Gov't 53%—Others	36.36
Porto	70.0	Sacor 33 $\frac{1}{3}$ %—Gov't 66 $\frac{2}{3}$ %—Other	63.64
Spain (Including Canary Is.)	1,163.0		100.00
Tarragona	18.0	Asesa (Asfaltos Espanoles)	1.55
Algeciras (Cadiz)	160.0	Cepsa	13.76
Tenerife (C.I.)	175.0	Cepsa	15.05
La Coruna	120.0	Petroliber 52%—Gov't 28%—Marathon 20%—Other	10.32
Puertollano	148.0	Calvo; Stelo	12.73
Castellon de la Plana	80.0	60%—Gov't 40%—Exxon	6.88
Escombreras, Cartagena	220.0	REPESA 60%—Gov't 20%—Texaco 20%—Standard Oil. Calif.	18.92
Somorrostro, Bilbao	160.0	Petronor 40%—Gulf 30%—Campsa 30%—Other	13.76
Huelva	82.0	Rio Gulf 40%—Gulf 60%—Other	7.05
Sweden	248.0		100.00
Nynasham	28.5	A.B. Nynas	11.49
Malmo	3.8	A.B. Nynas	1.53
Gothenburg	5.7	A.B. Nynas	2.30
Gothenburg	110.0	BP	44.35
Gothenburg	100.0	Shell	40.32
Switzerland	140.0		100.00
Collombey	75.0	RAF Suo-Quest 41.4%—Exxon 4%—Texaco 24.3%—British Petroleum 30.3%—Other	53.57
Cressier	65.0	RAF Cressier 75%—Shell 25%—Gulf	46.43
United Kingdom	2,762.1		100.00
Kent	2.0	Barry Wiggins	0.07
Isle of Grain	220.2	British Petroleum	7.97
Immingham (South Killingholme)	86.0	Continental	3.11
Fawley	398.0	Exxon	14.41
Killingholme (Lincolnshire)	189.0	Lindsey 50%—CFP 50%—Petrofina	6.84
Ellesmere Port	27.6	Burmah Castrol Co. (Royal Dutch/Shell/ British Petroleum)	1.00
Coryton, Essex	175.0	Mobil	6.34
Teeside (North Tees)	100.0	50%—Phillips 50%—Imperial Chem.	3.62
Belfast	31.4	British Petroleum	1.14
Grangemouth	178.4	British Petroleum	6.46
Ardrossan	6.0	Royal Dutch/Shell	0.22
Neath	166.5	British Petroleum	6.03
Milford Haven (Pembrokeshire)	309.0	Exxon	11.19
Milford Haven	103.0	Gulf	3.73
Pembroke	180.0	Texaco	6.52

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
WESTERN EUROPE (Continued)			
United Kingdom (Continued)			
Ileysham	39.0	Royal Dutch/Shell	1.41
Eastham Cheshire	11.0	Philmac Oils Ltd.	0.40
Shell Haven	200.0	Royal Dutch/Shell	7.24
Stanlow	215.0	Royal Dutch/Shell	7.78
Teesport	125.0	Royal Dutch/Shell	4.53
West Germany	2,325.7		100.00
Dinslaken	103.7	British Petroleum	3.67
Hamburg-Finkenwerder	99.6	British Petroleum	3.52
Vohburg	100.0	British Petroleum	3.54
Raunheim (Nr Frankfurt)	90.0	50%—Standard Oil (Calif.) 50%—Texaco	3.19
Heide	101.0	Deutsche Erdoel (Texaco)	3.57
Burghausen, Bavaria	65.0	Marathon	2.30
Godorf	180.0	Royal Dutch/Shell	6.37
Hamburg-Harburg-Geasbrook	85.0	Royal Dutch/Shell	3.01
Ingolstadt	55.0	Royal Dutch/Shell	1.95
Monheim	7.0	Royal Dutch/Shell	0.25
Speyer	57.8	ELF-Union	2.05
Ingolstadt-Donau	65.0	ENI (ER IAG)	2.30
Mannheim	123.2	ERMGH 60%—Wintershall 40%—Marathon	4.36
Neustadt	144.0	ERNGH 50%—Mobil 50%—Gelsenburg	5.10
Emden	47.5	Erdoel Frisia AG (Gulf)	1.68
Cologne (Koln)	115.0	Exxon	4.07
Hamburg-Harburg	110.0	Exxon	3.89
Ingolstadt	100.0	Exxon	3.54
Karlsruhe	180.0	Exxon	6.37
Duisburg-Neuenkamp	37.8	Petrofina	1.34
Gelsenkirchen-Ilhorst	144.0	Gelsenburg	5.10
Misburg	54.0	Deurag-Nerag 50%—Exxon 50%—Shell	1.91
Lingen-Holthausen	95.0	Wintershall	3.36
Essen-Altenessen	17.0	Kleinholz, 75%—Occidental 25%—Other	0.60
Ostermoor, Brunsbittel	7.5	Occidental	0.27
Worth	75.0	Mobil	2.65
Bremen-Oslebhausen	30.0	Mobil	1.06
Karlsruhe	128.0	DEA/Scholven 45%—Texaco 10%—Continental 45%—Gov't	4.53
Hamburg-Neuhof	7.6	J. Schindler (BP)	0.27
Klarenthal	55.2	Saarland-Raff	1.95
Gelsenkirchen-Buer	215.7	Veba-Chemie AG (Gov't)	7.63
Wesseling	125.0	Union Rhein	4.42
Salzbergen	5.0	Wintershall	0.18
UNITED STATES	14,216.3		100.00
Alabama			
Mobile	15.0	Standard Oil (Calif.)	0.11
Tuscaloosa	15.0	Hunt Oil	0.11
Cordova	3.0	Vulcan Asphalt Refining	0.02
Holt	2.4	Warrior Asphalt	0.02
Alaska			
North Slope	4.8	Atlantic Richfield	0.03
North Slope	1.2	British Petroleum	0.01

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
Kenai	22.0	Standard Oil (Calif.)	0.15
Kenai	38.0	Tesoro-Alaskan Petroleum Corp.	0.27
Arizona	9.0		0.06
Fredonia	9.0	Arizona Fuels Corp.	0.06
Arkansas	56.1		0.39
Stephens	3.0	Berry Petroleum (Sub Crystal Oil)	0.02
Smackover	4.8	Cross Oil & Refining	0.03
El Dorado	44.0	Lion Oil, Monsanto Poly & Petchem	0.31
Norphlet	4.3	Macmillan Ring-Free Oil	0.03
California	1,809.3		12.73
Carson	165.0	Atlantic Richfield	1.16
Hanford	12.0	Beacon Oil	0.08
Wilmington	29.0	Champlin Petroleum	0.20
Carson	12.3	Golden Eagle Refining Corp.	0.09
Paramount	35.0	Douglas Oil of Calif.	0.25
Santa Maria	8.2	Douglas Oil of Calif.	0.06
Long Beach	29.0	Edgington Oil	0.20
Oxnard	2.4	Edgington Oxnard Refining	0.02
Benicia	87.0	Exxon	0.61
Carson	15.8	Fletcher Oil & Refining	0.11
Oildale	10.5	Golden Bear Div., Witco Chem.	0.07
Santa Fe Springs	51.5	Gulf Oil	0.36
Bakersfield	12.9	Kern County Refinery	0.09
South Gate	5.0	Lundary-Thagard Oil	0.04
Signal Hill	9.5	Macmillan Ring-Free Oil	0.07
Torrance	123.5	Mobil Oil	0.87
Bakersfield	22.1	Mohawk Petroleum	0.16
Newhall	7.5	Newhall Refining	0.05
Avon	110.0	Phillips Petroleum	0.77
Santa Fe Springs	28.5	Powerine Oil	0.20
Oildale	17.0	San Joaquin Refining	0.12
Hercules	27.0	Sequoia Refining Corp.	0.19
Martinez	100.0	69%—Royal Dutch/Shell 31%—US Shell	0.70
Wilmington	96.0	69%—Royal Dutch/Shell 31%—US Shell	0.68
Bakersfield	26.0	Standard Oil (Calif.)	0.18
El Segundo	230.0	Standard Oil (Calif.)	1.62
Richmond	190.0	Standard Oil (Calif.)	1.34
Bakersfield	8.8	Sunland Refining Corp.	0.06
Bakersfield	1.2	Tenneco	0.01
Wilmington	75.0	Texaco	0.53
Bakersfield	26.6	Toseopetro Corp.	0.19
Los Angeles	108.0	Union Oil of Calif.	0.76
San Francisco	111.0	Union Oil of Calif.	0.78
Bakersfield	16.0	West Coast Oil	0.11
Colorado	55.8		0.39
Grand Junction (Gilsonite)	8.3	American Gilsonite 50%—Standard Oil (Calif.) 50%—Other	0.06
Commerce City (Denver)	30.0	Continental Oil	0.21
Commerce City	17.5	The Refinery Corp.	0.12
Delaware	140.0		0.98
Delaware City	140.0	Getty Oil	0.98

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
Florida	5.0		0.04
St. Marks	5.0	Seminole Asphalt Refining	0.04
Georgia	14.4		0.10
Savannah	12.0	Amoco Oil (Standard Oil, Ind.)	0.08
Douglasville	2.4	Young Refining	0.02
Hawaii	70.0		0.49
Barber's Point	30.0	Hawaiian Indep. Refinery	0.21
Barber's Point	40.0	Standard Oil (Calif.)	0.28
Illinois	1,151.5		8.10
Wood River	107.0	Amoco Oil (Standard Oil, Ind.)	0.75
Blue Island	68.0	Clark Oil & Refining	0.48
Hartford	36.0	Clark Oil & Refining	0.25
Robinson	195.0	Marathon Oil	1.37
Joliet	175.0	Mobil Oil	1.23
Wood River	260.0	69%—Royal Dutch/Shell 31%—US Shell	1.83
Lawrenceville	84.0	Texaco	0.59
Lockport	72.0	Texaco	0.51
Lemont	152.0	Union Oil of Calif.	1.07
Plymouth	1.5	Wirehack Oil	0.01
Colmar	1.0	Yetter Oil	0.01
Indiana	551.0		3.88
Whiting	315.0	Amoco Oil (Standard Oil, Ind.)	2.22
East Chicago	126.0	Atlantic Richfield	0.89
Ft. Wayne	10.0	Gladieux Refining	0.07
Mt. Vernon	15.0	Indiana Farm Bureau Co-op Assn.	0.11
Laketon	8.5	Laketon Asphalt Refining	0.06
East Chicago	47.0	Mobil Oil	0.33
Indianapolis	29.5	Rock Island Refining	0.21
Kansas	401.9		2.83
El Dorado	25.0	36%—American Petrofina 64%—Petrofina S.A.	0.18
Arkansas City	25.0	Apeo Oil	0.18
Coffeyville	35.0	CRA	0.25
Phillipsbury	20.0	CRA	0.14
Wichita	25.9	Derby Refining	0.18
Chanute	3.1	Mid-American Refining	0.02
Augusta	50.0	Mobil	0.35
McPherson	54.2	National Co-op Refining Assn.	0.38
Shallow Water	5.0	North American Petroleum	0.04
Kansas City	85.0	Phillips Petroleum	0.60
El Dorado	73.7	Skelly Oil 63%—Getty 37%—Other	0.52
Kentucky	159.8		1.12
Catlettsburg	132.0	Ashland Oil	0.93
Louisville	25.0	Ashland Oil	0.18
Somerset	2.8	Somerset Refinery	0.02
Louisiana	1,666.6		11.72
Shreveport	29.0	Atlas Processing	0.20
Hosston	3.5	Bayou State Oil	0.02
Princeton	2.4	Calumet Refining	0.02
Church Point	2.5	Canal Refining	0.02
Lake Charles	268.0	Cities Service Oil	1.89
Westlake	83.0	Continental Oil	0.58
Cotton Valley	7.8	Cotton Valley Solvents	0.05
Jennings	4.3	Evangeline Refining	0.03
Baton Rouge	445.0	Exxon	3.13

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
Louisiana (Continued)			
Good Hope	29.4	Good Hope Refineries	0.21
Belle Chasse	180.4	Gulf Oil	1.27
Venice	28.7	Gulf Oil	0.20
Cotton Valley	7.5	Kerr McGee Corp.	0.05
St. James	9.6	Lajet Inc.	0.07
Meraux	92.5	Murphy Oil	0.65
Norco	240.0	69%—Royal Dutch/Shell 31%—US Shell	1.69
Chalmette	93.0	Tenneco Oil	0.65
Convent	140.0	Texaco	0.98
Maryland	23.5		0.17
Baltimore	10.0	Amoco Oil (Standard Oil, Ind.)	0.07
Baltimore	13.5	Standard Oil (Calif.)	0.09
Michigan	137.1		0.96
Bay City	17.0	Bay Refining Dow Chemical USA	0.12
Carson City	6.2	Crystal Refining	0.04
Kalamazoo	6.0	Lakeside Refining	0.04
Detroit	58.0	Marathon Oil	0.41
West Branch	9.1	Osceola Refining	0.06
Alma	40.8	Total Leonard	0.29
Minnesota	190.4		1.34
Wrenshall	23.5	Continental Oil	0.17
Pine Bend (St. Paul)	106.9	Koch Refining	0.75
St. Paul Park	60.0	Northwestern Refining (Div. of Ashland Oil)	0.42
Mississippi	289.7		2.04
Purvis	28.5	Amerada-Hess	0.20
Lumberton	6.0	Southland Oil	0.04
Sandersville	11.0	Southland Oil	0.08
Crupp	4.2	Southland Oil	0.03
Pascagoula	240.0	Standard Oil (Calif.)	1.69
Missouri	105.0		0.74
Sugar Creek	105.0	Amoco Oil (Standard Oil, Ind.)	0.74
Montana	158.5		1.11
Kevin	5.1	Big West Oil	0.04
Billings	52.5	Continental Oil	0.37
Billings	45.0	Exxon	0.32
Laurel	42.0	Cenex	0.30
Mosby	1.0	Jet Fuel Refinery	0.01
Great Falls	5.7	Phillips Petroleum	0.04
Wolf Point	2.5	Spruce Oil, Wolf Point Refining Division	0.02
Cut Bank	4.7	Westco Refining	0.03
Nebraska	5.0		0.04
Scottsbluff	5.0	CRA	0.04
New Jersey	619.0		4.35
Fort Reading	70.0	Amerada-Hess	0.49
Perth Amboy	88.0	Standard Oil (Calif.)	0.62
Linden	275.0	Exxon	1.93
Paulsboro	98.0	Mobil Oil	0.69
Westville	88.0	Texaco	0.62
New Mexico	55.3		0.39
Kirtland	2.2	Caribou's Four Corner's	0.02
Monument	5.0	Famariss Oil	0.04
Artesia	20.9	Navajo Refining	0.15
Bloomfield	5.1	Plateau	0.04

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 Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
New Mexico (Continued)			
Ciniza	20.0	69%—Royal Dutch/Shell 31%—US Shell	0.14
Bloomfield	2.1	Thriftway Oil	0.01
New York	107.6		0.76
North Tonawanda	65.0	Ashland Oil	0.46
Buffalo	42.6	Mobil Oil	0.30
North Dakota	52.7		0.37
Mandan	48.0	Amoco Oil (Standard Oil, Ind.)	0.34
Williston	4.7	Westland Oil	0.03
Ohio	572.4		4.03
Canton	60.0	Ashland Oil	0.42
Findlay (seasonal)	10.0	Ashland Oil	0.07
Cleves	42.1	Gulf Oil	0.30
Toledo	50.3	Gulf Oil	0.35
Lima	165.0	Standard Oil (Ohio)	1.16
Toledo	120.0	Standard Oil (Ohio)	0.84
Toledo	125.0	Sun Oil of Pa.	0.88
Oklahoma	481.0		3.38
Stroud	5.5	Allied Materials	0.04
Cyril	12.0	Apco Oil	0.08
Enid	49.5	Champlin Petroleum	0.35
Ponca City	117.0	Continental Oil	0.82
Wynnewood	32.0	Kerr-McGee	0.23
Cushing	19.0	Midland Cooperatives	0.13
Okmulgee	21.5	OKC Refining	0.15
Duncan	48.5	Sun Oil of Pa.	0.34
Tulsa	88.5	Sun Oil of Pa.	0.62
Tulsa	50.0	Texaco	0.35
Arnett	6.0	Tonkawa Refining	0.04
Ardmore	31.5	Vickers Petroleum, Bell Refinery	0.22
Oregon	14.0		0.10
Portland	14.0	Standard Oil (Calif.)	0.10
Pennsylvania	689.6		4.85
Philadelphia	185.0	Atlantic Richfield	1.30
Marcus Hook	98.0	British Petroleum	0.69
Bradford	7.0	Bradford Petroleum Division, Witco Chemical	0.05
Philadelphia	168.5	Gulf Oil	1.19
Rouseville	10.0	Pennzoil	0.07
Emblenton	3.3	Quaker State Oil Refining	0.02
Farmers Valley	6.5	Quaker State Oil Refining	0.05
Marcus Hook	165.0	Sun Oil of Pa.	1.16
Warren	38.0	United Refining	0.27
Freedom	6.2	Valvoline Oil, Division of Ashland	0.04
Reno	2.1	Wolf's Head Oil Refining	0.01
Tennessee	29.0		0.20
Memphis	29.0	Delta Refining	0.20
Texas	3,732.9		26.26
La Blanca	4.2	Crystal Oil	0.03
Mt. Pleasant	26.0	64%—Petrofina, S.A. 36%—Am. Petrofina	0.18
Port Arthur	84.0	64%—Petrofina, S.A. 36%—Am. Petrofina	0.59
Texas City	333.0	Amoco Oil (Standard Oil, Ind.)	2.34
Houston	213.0	Atlantic Richfield	1.50
Corpus Christi	62.0	Champlin Petroleum	0.44
Houston	70.0	Charter International Oil	0.49
El Paso	71.0	Standard Oil (Calif.)	0.50

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
Texas (Continued)			
Corpus Christi	127.9	Coastal States Petroleum	0.90
Big Spring	65.0	Cosden Oil & Chem	0.46
Houston	100.0	Crown Central Petroleum	0.70
Sunray	47.0	Diamond Shamrock Oil & Gas	0.33
Houston	3.2	Eddy Refining	0.02
Baytown	400.0	Exxon	2.81
San Antonio	1.2	Flint Chemical	0.01
Port Arthur	312.1	Gulf Oil	2.20
San Antonio	3.1	Howell Hydrocarbons	0.02
Tyler	28.0	La Gloria Oil & Gas	0.20
Longview	6.6	Occidental	0.05
Texas City	61.0	Marathon Oil	0.43
Beaumont	325.0	Mobil	2.29
Borger	95.0	Phillips Petroleum	0.67
Sweeny	85.0	Phillips Petroleum	0.60
Abilene	14.1	Pride Refining	0.10
Corpus Christi	10.0	Quintana-Howell	0.07
Dear Park	288.0	69%—Royal Dutch/Shell 31%—US Shell	2.03
Odessa	32.0	69%—Royal Dutch/Shell 31%—US Shell	0.23
Corpus Christi	100.0	Southwestern Oil & Refining	0.70
Corpus Christi	57.0	Suntide Refining	0.40
Carrizo Springs	13.0	Tesoro Petroleum	0.09
Amarillo	20.0	Texaco	0.14
El Paso	17.5	Texaco	0.12
Port Arthur	406.0	Texaco	2.86
Port Neches	47.0	Texaco	0.33
Fort Worth	3.0	Texas Asphalt & Refining	0.02
Texas City	60.0	Texas City Refining	0.42
Three Rivers	1.5	Three Rivers Refinery	0.01
Nederland	116.0	Union Oil of California	0.82
Winnie	9.5	Union Texas Petroleum, Division of Allied Chemicals	0.07
Fort Worth	15.0	Winston Refining Co.	0.11
Utah	133.2		0.94
Salt Lake	39.0	Amoco Oil (Standard Oil, Ind.)	0.27
Woods Cross	4.2	Caribou's Four Corners	0.03
Roosevelt	10.5	Arizona Fuels Corp.	0.07
Salt Lake	45.0	Standard Oil (Calif.)	0.32
North Salt Lake	11.5	Husky Oil	0.08
Woods Cross	23.0	Phillips Petroleum	0.16
Virginia	53.0		0.37
Yorktown	53.0	Amoco Oil (Standard Oil, Ind.)	0.37
Washington	346.5		2.44
Ferndale	96.0	Atlantic Richfield	0.68
Ferndale	71.5	Mobil Oil	0.50
Anacortes	91.0	69%—Royal Dutch/Shell 31%—US Shell	0.64
Tacoma	4.5	Sound Refining	0.03
Richmond Beach	4.5	Standard Oil (Calif.)	0.03
Anacortes	63.0	Texaco	0.44
Tacoma	16.0	US Oil & Refining	0.11
West Virginia	19.5		0.14
Falling Rock	5.0	Pennzoil, Elf Refining Division	0.04
St. Marys	4.8	Quaker State Oil Refining	0.03
Newell	9.7	Quaker State Oil Refining	0.07

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
UNITED STATES (Continued)			
Wisconsin	37.0		0.26
Superior	37.0	Murphy Oil	0.26
Wyoming	172.6		1.21
Casper	43.0	Amoco Oil (Standard Oil, Ind.)	0.30
Cheyenne	23.6	Husky Oil	0.17
Cody	10.7	Husky Oil	0.08
Casper	22.0	Little America Refining	0.15
La Barge	0.5	Mountaineer Refining	Negl.
Sinclair	40.0	Pasco	0.28
Cowley	1.0	Sage Creek Refining	0.01
Newcastle	10.5	Tesoro Petroleum	0.07
Casper	21.0	Texaco	0.15
La Barge	0.3	Southwestern Refining Co.	Negl.
CANADA	1,877.3		100.00
Alberta	176.9		9.42
Calgary	6.8	Gulf Canada	0.36
		69%—Gulf	
		30%—Public	
Calgary	22.6	Imperial Oil	1.20
		70%—Exxon	
		30%—Public	
Bowden	5.0	Shell Canada	0.27
		87%—Royal Dutch/Shell	
		13%—Public	
Edmonton	72.0	Gulf Canada	3.84
		69%—Gulf	
		31%—Public	
Edmonton	20.0	Texaco Canada	1.07
		68%—Texaco	
		32%—Public	
Edmonton	39.9	Imperial Oil	2.13
		70%—Exxon	
Lloydminster	10.6	Husky Oil	0.56
British Columbia	133.9		7.13
North Burnaby	20.0	Standard Oil (Calif.)	1.07
IOCO	36.8	Imperial Oil	1.96
		70%—Exxon	
		30%—Public	
Kamloops	5.9	Gulf Canada	0.31
		69%—Gulf	
		31%—Public	
Port Moody	30.0	Gulf Canada	1.60
		69%—Gulf	
		31%—Public	
Prince George	7.5	Union Oil	0.40
Shellburn	22.0	Shell Canada	1.17
		87%—Royal Dutch/Shell	
		13%—Public	
Taylor	11.7	Pacific Petroleum	0.62
		46%—Phillips	
		54%—Public	
Manitoba	49.0		2.61
St. Boniface	27.0	Shell Canada	1.44
		87%—Royal Dutch/Shell	
		13%—Public	
Winnipeg	22.0	Imperial Oil	1.17
		70%—Exxon	
		30%—Public	

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
CANADA (Continued)			
New Brunswick	123.5		6.58
St. John	123.5	Irving Refining 50 % - Standard Oil (Calif.) 50 % - Other	6.58
Newfoundland	118.0		6.29
Come by Chance	105.0	Shaheen	5.59
Holyrood	13.0	Golden Eagle (Ultramar)	0.69
Northwest Territories	2.9		0.15
Norman Wells	2.9	Imperial Oil 70 % - Exxon 30 % - Public	0.15
Nova Scotia	180.0		9.59
Dartmouth	82.5	Imperial Oil 70 % - Exxon 30 % - Public	4.39
Halifax	17.5	Texaco Canada 68 % - Texaco 32 % - Public	0.93
Pt. Tupper	80.0	Gulf Canada 69 % - Gulf 31 % - Public	4.26
Ontario	419.4		22.34
Clarkson	55.4	Gulf Canada 69 % - Gulf 31 % - Public	2.95
Oakville	36.0	BP Canada 80 % - British Petroleum 20 % - Public	1.92
Oakville	42.0	Shell Canada 87 % - Royal Dutch/Shell 13 % - Public	2.24
Port Credit	46.0	Regent Refining 68 % - Texaco 32 % - Public	2.45
Sarnia	130.0	Imperial Oil 70 % - Exxon 30 % - Public	6.92
Sarnia	72.0	Shell Canada 87 % - Royal Dutch/Shell 13 % - Public	3.84
Sarnia	38.0	Sun Oil	2.02
Quebec	607.5		32.36
Montreal	71.0	BP Canada 80 % - British Petroleum 20 % - Public	3.78
Montreal	67.5	Gulf Canada 69 % - Gulf 31 % - Public	3.60
Montreal	108.0	Imperial Oil 70 % - Exxon 30 % - Public	5.75
Montreal	73.0	Petrofina Canada 65.5 % - Petrofina S.A. 34.5 % - Public	3.89
Montreal	115.0	Shell Canada 87 % - Royal Dutch/Shell 13 % - Public	6.13

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
CANADA (Continued)			
Quebec (Continued)			
Montreal	73.0	Texaco Canada 68%—Texaco 32%—Public	3.89
St. Romuald	100.0	Golden Eagle (Ultramar)	5.33
Saskatchewan	66.2		3.53
Kamsack	1.0	Northern Pete	0.05
Moose Jaw	10.4	Gulf Canada 69%—Gulf 31%—Public	0.55
Regina	22.6	Consumers Co-op	1.20
Regina	32.2	Imperial Oil 70%—Exxon 30%—Public	1.72
LATIN AMERICA			
	7,143.7		
Antigua	17.3		100.00
St. John's	17.3	Natomas	100.00
Argentina	623.6		100.00
Chubut	6.8	Private	1.09
Lomas de Zamora	1.8	Private	0.29
Campana	91.9	Exxon	14.74
Galvan	17.0	Exxon	2.73
Quilmes	0.6	Private	0.10
Bahia Blanca	12.6	Private	2.02
Buenos Aires	115.0	Shell	18.44
Campo Duran	28.3	YPF (Yacimientos Petroliferos Fis- cales)	4.54
Dock Sud	6.0	YPF	0.96
Tierra del Fuego	0.2	YPF	0.03
La Plata	191.8	YPF	30.76
Lujan de Cuyo	113.2	YPF	18.15
Plaza Huincul	5.0	YPF	0.80
San Lorenzo	33.3	YPF	5.34
Bahamas	500.0		100.00
Freeport	500.0	65%—New England Petroleum Co. 35%—Standard Oil (Calif.)	100.00
Barbados	3.0		100.00
Bridgetown	3.0	Mobil	100.00
Bolivia	25.5		100.00
Camiri	1.5	Gov't	5.88
Cochabamba	16.5	Gov't	64.71
Sanandita	0.5	Gov't	1.96
Santa Cruz	3.0	Gov't	11.76
Sucre	4.0	Gov't	15.69
Brazil	791.8		100.00
Manaus	10.0	Private	1.26
Minas Gerais	65.4	Petrobras	8.26
Rio Grande do Sul	65.4	Petrobras	8.26
Sao Paulo	166.4	Petrobras	21.02
Rio de Janeiro	208.0	Petrobras	26.27
Bahia	83.3	Petrobras	10.52
Sao Paulo	154.5	Petrobras	19.51
Rio Grande	9.3	Private	1.17
Rio de Janeiro	9.5	Private	1.20
Sao Paulo	20.0	Private	2.53
Chile	123.5		100.00
Concepcion	72.0	ENAP (State)	58.30

Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
LATIN AMERICA (Continued)			
Chile (Continued)			
Concon	50.0	ENAP	40.49
Magallanes	1.5	ENAP	1.21
Colombia	166.1		100.00
North Santander	3.0	50%—Gov't 50%—Texaco	1.81
Burrancabermeja	110.0	Gov't	66.23
Cartagena	44.0	Intercol (Exxon)	26.49
La Dorada	5.6	Intercol (Exxon)	3.37
El Guamo	2.5	Texaco	1.51
Orito	1.0	50%—Texaco 50%—Gulf	0.60
Costa Rica	7.6		100.00
Limon	7.6	Gov't	100.00
Dominican Republic	46.0		100.00
Banao	16.0	Falconbridge Dominicanang	34.78
Nigua	30.0	50%—Gov't 50%—Shell	65.22
Ecuador	35.2		100.00
La Libertad	27.2	51.2%—Burmah 48.8%—Local	77.27
La Libertad	7.0	Gulf	19.89
Lago Agrio	1.0	Texaco	2.84
El Salvador	13.7		100.00
Acajutla	13.7	35%—Royal Dutch/Shell 65%—Exxon	100.00
Guatemala	26.0		100.00
Puerto Barrios	12.0	60%—Standard Oil (Calif.) 40%—Shell	46.15
Escuintla	14.0	Texaco	53.85
Honduras	14.0		100.00
Puerto Cortes	14.0	67%—Texaco 33%—Others	100.00
Jamaica	33.0		100.00
Kingston	33.0	Exxon	100.00
Martinique	14.0		100.00
Fort de France	14.0	24%—Royal Dutch/Shell 25%—CFP 25%—ELF Union 14.5%—Exxon 11.5%—Texaco	100.00
Mexico	625.0		100.00
Azcapotzalco	100.0	Permex	16.00
Ciudad Madero	169.0	Permex	27.04
Minatitlan	208.5	Permex	33.36
Poza Rica	27.0	Permex	4.32
Reynosa	20.5	Permex	3.28
Salamanca	100.0	Permex	16.00
Netherland Antilles	945.0		100.00
Aruba	520.0	Exxon	55.03
Curacao Emmastad	425.0	Royal Dutch/Shell	44.97
Nicaragua	13.2		100.00
Managua	13.2	Exxon	100.00
Panama	75.0		100.00
Colon	75.0	66.7%—Texaco 33.3%—Ultramar	100.00

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Area Refining Capacity, by Refinery and Ownership (Continued)

Location	Crude Capacity (Thousand b/d)	Ownership	Percent of Total
LATIN AMERICA (Continued)			
Paraguay	5.0		100.00
Villa Elisa	5.0	Retineriq Paraguaya SH.	100.00
Peru	106.8		100.00
Pucallpa	2.5	Atlantic Richfield	2.34
Conchan	8.0	Gov't	7.49
Iquitos	1.3	Gov't	1.22
La Pampilla	35.0	Gov't	32.77
Talara	60.0	Gov't	56.18
Puerto Rico	307.8		100.00
Bayamon	37.8	Gulf	12.28
Penuelas	185.0	Commonwealth	60.10
Yabucoa	85.0	Sun	27.62
Trinidad	461.0		100.00
Point Fortin	100.0	Royal Dutch/Shell	21.69
Brighton	6.0	Texaco	1.30
Pointe-a-Pierre	355.0	Texaco	77.01
Uruguay	43.0		100.00
Montevideo	43.0	Gov't	100.00
Venezuela	1,531.6		100.00
Bajo Grande	61.5	Standard Oil (Calif.)	4.02
Cardon	348.0	Royal Dutch/Shell	22.72
San Lorenzo	32.0	Royal Dutch/Shell	2.09
Estado Carabobo	30.0	CVP	1.96
Amuay	630.0	Creole	41.13
		95.4 % Exxon	
		4.6 % --- Public	
Quiriquire	110.0	Creole	7.18
		95.4 % --- Exxon	
		4.6 % --- Public	
El Palito	102.0	Mobil	6.66
San Roque	5.0	Phillips	0.33
El Chaure	40.0	Sinclair	2.61
El Torenó	5.4	Sinclair	0.35
Tucupita	10.0	Texaco	0.65
Puerto la Cruz	157.7	66.7 % --- Gulf	10.30
		33.3 % --- Texaco	
Virgin Islands	590.0		100.00
St. Croix	590.0	Amerada Hess	100.00

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Area Refining Capacity, by Company

Location	Crude Capacity (Thousand b/d)	Percent of Total
MIDDLE EAST	3,119.5	
Bahrain	250.0	100.00
Standard Oil (Calif.)	125.0	50.00
Texaco	125.0	50.00
Iran	660.0	100.00
National Iranian Oil Co.	660.0	100.00
Iraq	168.5	100.00
Gov't	168.5	100.00
Israel	212.0	100.00
Gov't	212.0	100.00
Jordan	14.1	100.00
Local	14.1	100.00
Kuwait	566.0	100.00
Gov't Kuwait	260.4	46.01
Amin Oil	132.0	23.32
British Petroleum	60.0	10.60
Gulf	60.0	10.60
Local	53.6	9.47
Lebanon	53.5	100.00
Gov't	36.0	67.29
Mobil	8.7	16.26
Texaco	4.4	8.22
Standard Oil (Calif.)	4.4	8.22
Qatar	0.6	100.00
Gov't	0.6	100.00
Saudi Arabia	676.0	100.00
Gov't	161.0	23.82
Standard Oil (Calif.)	131.4	19.44
Texaco	131.4	19.44
Exxon	131.4	19.44
Getty	50.0	7.40
Mobil	43.8	6.48
Japanese interests	24.0	3.55
Gov't Kuwait	3.0	0.10
South Yemen	162.0	100.00
British Petroleum	162.0	100.00
Syria	51.3	100.00
Gov't	51.3	100.00
Turkey	305.5	100.00
Gov't	130.0	42.55
Mobil	50.4	16.50
Royal Dutch/Shell	24.3	7.95
British Petroleum	15.3	5.01
Others (Local)	85.5	27.99
AFRICA	1,104.7	
Algeria	115.3	100.00
Gov't	115.3	100.00
Angola/Cabinda	24.5	100.00
Petrofina	12.8	52.24
Gov't	8.9	36.33
Gulf	2.8	11.43
Egypt	180.0	100.00
Gov't	180.0	100.00
Ethiopia	14.4	100.00
Gov't	14.4	100.00
Gabon	17.0	100.00
Various African Gov't	4.3	25.29
CFP	3.2	18.82
ELF/Union	3.2	18.82
Mobil	2.0	11.76

Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
AFRICA (Continued)		
Gabon (Continued)		
Royal Dutch/Shell	1.9	11.18
AGIP/ENI	0.4	2.35
Texaco	1.0	5.88
Petrofina	0.6	3.53
British Petroleum	0.5	2.94
Ghana	25.3	100.00
ENI	25.3	100.00
Ivory Coast	44.1	100.00
ELF/Union	11.1	25.17
Mobil	8.0	18.14
Royal Dutch/Shell	6.5	14.74
CFP	5.7	12.93
Texaco	3.5	7.94
British Petroleum	4.5	10.20
Gov't	4.4	9.98
Exxon	0.4	0.91
Kenya	47.9	100.00
Exxon	6.1	12.73
Royal Dutch/Shell	6.1	12.73
British Petroleum	6.1	12.73
Standard Oil (Calif.)	2.8	5.85
Texaco	2.8	5.85
Gov't	24.0	50.10
Liberia	10.0	100.00
Exxon	6.7	67.00
Others	3.3	33.00
Libya	16.4	100.00
Exxon	8.0	48.78
Gov't	4.8	29.27
Mobil	3.6	21.95
Malagasy Republic	14.0	100.00
ELF	4.9	35.00
Gov't	2.1	15.00
Exxon	1.9	13.57
CFP	1.0	7.14
Royal Dutch/Shell	0.9	6.43
British Petroleum	0.9	6.43
Standard Oil (Calif.)	0.9	6.43
Texaco	0.9	6.43
AGIP/ENI	0.5	3.57
Morocco	58.6	100.00
Gov't	29.3	50.00
ENI	25.0	42.66
French Gov't	4.3	7.34
Mozambique	17.0	100.00
Port. Oil Co.	12.8	75.29
CFP	4.2	24.71
Nigeria	60.0	100.00
Gov't	36.0	60.00
British Petroleum	12.0	20.00
Royal Dutch/Shell	12.0	20.00
Senegal	18.0	100.00
ELF/Union	4.3	23.89
Royal Dutch/Shell	2.1	11.67
British Petroleum	2.1	11.67
CFP	2.1	11.67
Mobil	2.1	11.67
Texaco	2.1	11.67

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Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
AFRICA (Continued)		
Senegal (Continued)		
National Bank	1.8	10.00
Exxon	0.2	1.11
Others	1.1	6.11
Sierra Leone	10.0	100.00
Gov't	5.0	50.00
Royal Dutch/Shell	1.8	18.00
Mobil	1.1	11.00
Texaco	1.1	11.00
British Petroleum	0.7	7.00
AGIP/ENI	0.3	3.00
Sudan	22.0	100.00
Royal Dutch/Shell	11.0	50.00
British Petroleum	11.0	50.00
Tanzania	17.0	100.00
Gov't	8.5	50.00
ENI	8.5	50.00
Tunisia	21.4	100.00
Gov't	10.7	50.00
ENI	10.7	50.00
Union of South Africa	331.0	100.00
Royal Dutch/Shell	86.0	25.98
British Petroleum	86.0	25.98
Mobil	60.0	18.13
South Africa Oil, Coal & Gas Co-op	26.2	7.92
Texaco	23.0	6.95
Standard Oil (Calif.)	23.0	6.95
Total—CFP	15.0	4.53
National Iranian Oil Co.	8.8	2.66
Local	3.0	0.91
Zaire	16.2	100.00
Gov't	8.1	50.00
ENI	8.1	50.00
Zambia	24.6	100.00
Gov't	12.3	50.00
ENI	12.3	50.00
ASIA/PACIFIC	8,920.2	
Australia	681.0	100.00
British Petroleum	153.3	22.51
Royal Dutch/Shell	147.0	21.59
Mobil	93.4	13.72
Texaco	66.0	9.69
Standard Oil (Calif.)	66.0	9.69
Domestic	60.0	8.81
Exxon	50.3	7.39
Amoco	25.0	3.67
CFP	20.0	2.94
Bangladesh	30.6	100.00
Gov't	21.4	69.93
Burmah	9.2	30.07
Brunei/Malaysia	123.2	100.00
Royal Dutch/Shell	83.2	67.53
Exxon	32.2	26.14
Public	7.8	6.33
Burma	25.3	100.00
Gov't	25.3	100.00
Chinese Republic (Taiwan)	210.0	100.00
Gov't	199.0	94.76
Gulf	11.0	5.24

Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
ASIA/PACIFIC (Continued)		
Guam	29.5	100.00
Guam Oil & Refining Co.	29.5	100.00
India	499.1	100.00
Gov't	281.7	56.44
Burmah	67.1	13.44
Royal Dutch/Shell	55.0	11.02
Exxon	23.3	4.67
Standard Oil (Calif.)	16.0	3.21
Texaco	16.0	3.21
Phillips	14.1	2.83
Standard Oil (Ind.)	7.3	1.46
National Iranian Oil Co.	7.3	1.46
Others	11.3	2.26
Indonesia	427.7	100.00
Gov't	427.7	100.00
Japan	5,151.8	100.00
Domestic	4,007.9	77.80
Exxon	231.9	4.50
Standard Oil (Calif.)	192.4	3.73
Texaco	192.4	3.73
Getty	162.5	3.15
Mobil	150.7	2.93
Royal Dutch/Shell	167.0	3.24
Gulf	47.0	0.91
New Zealand	54.0	100.00
British Petroleum	3.0	5.56
Mobil	10.0	18.52
Royal Dutch/Shell	9.0	16.67
Standard Oil (Calif.)	3.0	5.56
Texaco	3.0	5.56
Others	16.0	29.63
Pakistan	80.5	100.00
Gov't	44.3	55.03
Burmah	11.4	14.16
Exxon	9.9	12.30
Royal Dutch/Shell	8.3	10.31
Standard Oil (Calif.)	3.3	4.10
Texaco	3.3	4.10
Philippines	283.8	100.00
Exxon	63.8	22.48
Royal Dutch/Shell	51.0	17.97
Local	50.8	17.90
Mobil	48.2	16.98
Texaco	35.0	12.33
Standard Oil (Calif.)	35.0	12.33
Singapore	699.6	100.00
Royal Dutch/Shell	350.0	50.03
Mobil	175.0	25.01
Exxon	150.0	21.44
British Petroleum	24.6	3.52
South Korea	420.0	100.00
Gov't	105.0	25.00
Gulf	105.0	25.00
Local	105.0	25.00
Texaco	40.0	9.52
Standard Oil (Calif.)	40.0	9.52
Union	25.0	5.95
Sri Lanka	38.0	100.00
Gov't	38.0	100.00

Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
ASIA/PACIFIC (Continued)		
Thailand	166.2	100.00
Gov't	66.2	39.83
Local	45.5	27.38
Exxon	35.0	21.06
Royal Dutch/Shell	19.5	11.73
WESTERN EUROPE	18,109.3	
Austria	220.0	100.00
Gov't	220.0	100.00
Belgium	817.3	100.00
British Petroleum	157.4	19.26
Petrofina	152.5	18.66
Texaco	140.0	17.13
Standard Oil (Calif.)	105.0	12.85
Exxon	95.0	11.62
Occidental	83.3	10.19
SAB	60.0	7.34
Royal Dutch/Shell	9.4	1.15
Others	14.7	1.80
Cyprus	15.0	100.00
Gov't	5.4	36.00
Mobil	3.0	20.00
Royal Dutch/Shell	2.2	14.67
British Petroleum	2.2	14.67
Petrofina	2.2	14.67
Denmark	226.5	100.00
Gulf	94.5	41.72
Exxon	73.0	32.23
Royal Dutch/Shell	59.0	26.05
Finland	196.0	100.00
Gov't	196.0	100.00
France	3,140.0	100.00
CFP	780.2	24.85
Royal Dutch/Shell	513.3	16.35
ELF/Union	380.2	12.11
British Petroleum	324.4	10.33
Exxon	281.0	8.95
Antar	261.7	8.33
Mobil	196.3	6.25
Standard Oil (Calif.)	27.5	0.88
Texaco	27.5	0.88
Public & Other	348.0	11.08
Greece	313.6	100.00
Niarchos	100.0	31.89
Gov't	97.6	31.12
Exxon	76.0	24.23
Nicos Vord	40.0	12.76
Ireland	58.0	100.00
Exxon	23.2	40.00
British Petroleum	9.3	16.03
Royal Dutch/Shell	13.9	23.97
Texaco	11.6	20.00
Italy	3,880.6	100.00
Exxon	468.0	12.06
ENI	633.1	16.31
CFP	131.1	3.38
Mobil	130.0	3.35
Standard Oil (Ind.)	78.0	2.01
Gulf	78.0	2.01

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Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
WESTERN EUROPE (Continued)		
Italy (Continued)		
Standard Oil (Calif.)	67.5	1.74
Texaco	23.5	0.61
Petrofina	57.8	1.49
Getty	39.9	1.03
Phillips	10.1	0.26
Others	2,163.6	55.76
Netherlands	1,825.5	100.00
Royal Dutch/Shell	500.0	27.39
British Petroleum	475.0	26.02
Exxon	325.0	17.80
Standard Oil (Calif.)	205.2	11.24
Mohil	125.0	6.85
Texaco	95.8	5.25
Gulf	94.0	5.15
Other	6.5	0.36
Norway	168.0	100.00
Exxon	113.0	67.26
Royal Dutch/Shell	55.0	32.74
Portugal	110.0	100.00
Gov't	36.6	33.27
CFP	3.6	3.27
Mohil	2.0	1.82
Other	67.8	61.64
Spain	1,163.0	100.00
Gov't	242.4	20.84
Gulf	96.8	8.32
Standard Oil (Calif.)	44.0	3.78
Texaco	44.0	3.78
Marathon	33.6	2.89
Exxon	32.0	2.75
Other	670.2	57.63
Sweden	248.0	100.00
British Petroleum	110.0	44.35
Royal Dutch/Shell	100.0	40.32
A.B. Nynas	38.0	15.32
Switzerland	140.0	100.00
Royal Dutch/Shell	48.8	34.86
Exxon	31.1	22.21
British Petroleum	18.2	13.00
Gulf	16.2	11.57
Texaco	3.0	2.14
Other	22.7	16.21
United Kingdom	2,762.1	100.00
Exxon	707.0	25.60
British Petroleum	610.3	22.10
Royal Dutch/Shell	598.8	21.68
Texaco	180.0	6.52
Mohil	175.0	6.34
Gulf	103.0	3.73
CFP	94.5	3.42
Petrofina	94.5	3.42
Continental	86.0	3.11
Phillips	50.0	1.81
Other	63.0	2.28
West Germany	2,825.7	100.00
Exxon	532.0	18.83
Royal Dutch/Shell	354.0	12.53
British Petroleum	311.0	11.01

Location	Crude Capacity (Thousand b/d)	Percent of Total
WESTERN EUROPE (Continued)		
West Germany (Continued)		
Gov't	273.3	9.67
Gelsenburg	216.0	7.64
Texaco	203.6	7.21
Mobil	177.0	6.26
Wintershall	173.9	6.15
Marathon	114.3	4.05
ENI	65.0	2.30
ELF/Union	57.8	2.05
Gulf	47.5	1.68
Standard Oil (Calif.)	45.0	1.59
Petrofina	37.8	1.34
Occidental	20.3	0.72
Continental	12.8	0.45
Other	184.4	6.53
UNITED STATES	14,216.3	100.00
Exxon	1,252.0	8.81
Texaco	1,083.5	7.62
Standard Oil (Ind.)	1,065.0	7.49
Standard Oil (Calif.)	1,003.2	7.06
Mobil	932.6	6.56
Gulf	833.6	5.86
Atlantic Richfield	789.8	5.56
Royal Dutch/Shell	777.6	5.47
Union Oil	487.0	3.43
Sun Oil	427.0	3.00
Phillips Petroleum	403.7	2.84
Ashland	358.2	2.52
Shell (US)	349.4	2.46
Marathon	314.0	2.21
Continental	306.0	2.15
Cities Service	268.0	1.89
Standard Oil (Ohio)	213.8	1.50
Getty	186.4	1.31
British Petroleum	170.4	1.20
Champlin Petroleum	140.5	0.99
Murphy	129.5	0.91
Coastal States	127.9	0.90
Koch Refining	106.9	0.75
Clark	104.0	0.73
Crown Central Petroleum	100.0	0.70
Southwestern Oil & Refining	100.0	0.70
Amerada-Hess	98.5	0.69
Petrofina S.A.	86.4	0.61
Occidental	6.6	0.05
Others	1,994.8	14.03
CANADA	1,877.3	100.0
Exxon	332.4	17.71
Shell	246.1	13.11
Gulf Oil	226.4	12.06
Ultramar	113.0	6.02
Texaco	106.4	5.67
Shaheen	105.0	5.59
British Petroleum	85.6	4.56
Standard Oil (Calif.)	81.8	4.36
Petrofina S.A.	47.8	2.55
Sun Oil	38.0	2.02

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Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
CANADA (Continued)		
Consumers' Co-op	22.6	1.20
Husky Oil	10.6	0.56
Union	7.5	0.40
Phillips	5.4	0.29
Hunting Gihson (Northern Petroleum)	1.0	0.05
Other	447.7	23.85
LATIN AMERICA	7,143.7	
Antigua	17.3	100.00
Natomas	17.3	100.00
Argentina	623.6	100.00
Gov't	377.8	60.58
Royal Dutch/Shell	115.0	18.44
Exxon	108.9	17.46
Local	21.8	3.50
Bahamas	500.0	100.00
New England Petroleum Co.	325.0	65.00
Standard Oil (Calif.)	175.0	35.00
Barbados	3.0	100.00
Mobil	3.0	100.00
Bolivia	25.5	100.00
Gov't	25.5	100.00
Brazil	791.8	100.00
Petrobras (Gov't)	743.0	93.84
Local	48.8	6.16
Chile	123.5	100.00
ENAP (Gov't)	123.5	100.00
Colombia	166.1	100.00
Gov't	111.5	67.13
Exxon	49.6	29.86
Texaco	4.5	2.71
Gulf	0.5	0.30
Costa Rica	7.6	100.00
Gov't	7.6	100.00
Dominican Republic	46.0	100.00
Gov't	15.0	32.61
Royal Dutch/Shell	15.0	32.61
Other	16.0	34.78
Ecuador	35.2	100.00
Burmah	13.9	39.49
Gulf	7.0	19.89
Texaco	1.0	2.84
Other— Local	13.3	37.78
El Salvador	13.7	100.00
Exxon	8.9	64.96
Royal Dutch/Shell	4.8	35.04
Guatemala	26.0	100.00
Texaco	14.0	53.85
Standard Oil (Calif.)	7.2	27.69
Royal Dutch/Shell	4.8	18.46

Area Refining Capacity, by Company (Continued)

Location	Crude Capacity (Thousand b/d)	Percent of Total
LATIN AMERICA (Continued)		
Honduras	14.0	100.00
Texaco	9.4	67.14
Other	4.6	32.86
Jamaica	33.0	100.00
Exxon	33.0	100.00
Martinique	14.0	100.00
CFP	3.5	25.00
ELF/Union	3.5	25.00
Royal Dutch/Shell	3.4	24.29
Exxon	2.0	14.29
Texaco	1.6	11.43
Mexico	625.0	100.00
Permex (Gov't)	625.0	100.00
Netherlands Antilles	945.0	100.00
Exxon	520.0	55.03
Royal Dutch/Shell	425.0	44.97
Nicaragua	13.2	100.00
Exxon	13.2	100.00
Panama	75.0	100.00
Texaco	50.2	66.93
Ultramar	24.8	33.07
Paraguay	5.0	100.00
Local	5.0	100.00
Peru	106.8	100.00
Gov't	104.3	97.66
Atlantic Richfield	2.5	2.34
Puerto Rico	307.8	100.00
Commonwealth	185.0	60.10
Sun	85.0	27.62
Gulf	37.8	12.28
Trinidad	461.0	100.00
Texaco	361.0	78.31
Royal Dutch/Shell	100.0	21.69
Uruguay	43.0	100.00
Gov't	43.0	100.00
Venezuela	1,531.6	100.00
Exxon	706.0	46.10
Royal Dutch/Shell	380.0	24.81
Gulf	105.1	6.86
Mobil	102.0	6.66
Texaco	62.6	4.09
Standard Oil (Calif.)	61.5	4.02
Sinclair	45.4	2.96
CVP	30.0	1.96
Phillips	5.0	0.33
Others	34.0	2.22
Virgin Islands	590.0	100.00
Amerada-Hess	590.0	100.00

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 Company Ownership of Refining Capacity, by Area

Company	Number	Crude Capacity (Thousand b/d)	Percent of Total
EXXON	71	6,533.4	100.00
Middle East	1	131.4	2.01
Saudi Arabia	1	131.4	2.01
Africa	6	23.3	0.36
Kenya	1	6.1	0.09
Ivory Coast	1	0.4	0.01
Liberia	1	6.7	0.10
Libya	1	8.0	0.12
Malagasy Republic	1	1.9	0.03
Senegal	1	0.2	Negl.
Asia/Pacific	15	596.4	9.13
Japan	6	231.9	3.55
Australia	2	50.3	0.77
Brunei-Malaysia	1	32.2	0.49
India	2	23.3	0.36
Pakistan	1	9.9	0.15
Philippines	1	63.8	0.98
Singapore	1	150.0	2.30
Thailand	1	35.0	0.54
Western Europe	24	2,756.3	42.19
Belgium	1	95.0	1.45
Denmark	1	73.0	1.12
France	4	281.0	4.30
Greece	1	76.0	1.16
Ireland	1	23.2	0.36
Italy	4	468.0	7.16
Netherlands	1	325.0	4.97
Norway	2	113.0	1.73
Spain	1	32.0	0.50
Switzerland	1	31.1	0.48
United Kingdom	2	707.0	10.82
W. Germany	5	532.0	8.14
United States	5	1,252.0	19.16
Canada	9	332.4	5.09
Latin America	11	1,441.6	22.07
Argentina	2	108.9	1.67
Colombia	2	49.6	0.76
El Salvador	1	8.9	0.14
Jamaica	1	33.0	0.51
Martinique	1	2.0	0.03
Netherlands Antilles	1	520.0	7.96
Nicaragua	1	13.2	0.20
Venezuela	2	706.0	10.81
ROYAL DUTCH/SHELL	70	5,368.7	100.00
Middle East	1	24.3	0.45
Turkey	1	24.3	0.45
Africa	9	128.3	2.39
Gabon	1	1.9	0.04
Ivory Coast	1	6.5	0.12
Kenya	1	6.1	0.11
Malagasy Republic	1	0.9	0.02
Nigeria	1	12.0	0.22
Senegal	1	2.1	0.04
Sierra Leone	1	1.8	0.03
Sudan	1	11.0	0.20
South Africa	1	86.0	1.60
Asia/Pacific	14	890.0	16.58
Japan	4	167.0	3.11
Australia	2	147.0	2.71
Brunei-Malaysia	2	83.2	1.55

Company	Number	Crude Capacity (Thousand b/d)	Percent of Total
ROYAL DUTCH/SHELL (Con.)			
Asia/Pacific (Continued)			
India	1	55.0	1.02
New Zealand	1	9.0	0.17
Pakistan	1	8.3	0.15
Philippines	1	51.0	0.95
Singapore	1	350.0	6.52
Thailand	1	19.5	0.36
Western Europe	23	2,254.4	41.99
Belgium	1	9.4	0.18
Cyprus	1	2.2	0.04
Denmark	1	59.0	1.10
France	4	513.3	9.56
Ireland	1	13.9	0.26
Netherlands	1	500.0	9.31
Norway	1	55.0	1.02
Sweden	1	100.0	1.86
Switzerland	1	48.8	0.91
United Kingdom	6	598.8	11.15
W. Germany	5	354.0	6.59
United States	8	777.6	14.48
Canada	6	246.1	4.58
Latin America	9	1,048.0	19.52
Argentina	1	115.0	2.14
Dominican Rep.	1	15.0	0.28
El Salvador	1	4.8	0.09
Guatemala	1	4.8	0.09
Martinique	1	3.4	0.06
Netherlands Antilles	1	425.0	7.92
Trinidad	1	100.0	1.86
Venezuela	2	380.0	7.08
TEXACO	61	3,073.1	100.00
Middle East	3	260.8	8.49
Bahrain	1	125.0	4.07
Lebanon	1	4.4	0.14
Saudi Arabia	1	131.4	4.28
Africa	7	34.4	1.12
Gabon	1	1.0	0.03
Ivory Coast	1	3.5	0.11
Kenya	1	2.8	0.09
Malagasy Republic	1	0.9	0.03
Senegal	1	2.1	0.07
Sierra Leone	1	1.1	0.04
South Africa	1	23.0	0.75
Asia/Pacific	12	355.7	11.57
Japan	6	192.4	6.26
Australia	1	66.0	2.15
India	1	16.0	0.52
Korea	1	40.0	1.30
New Zealand	1	3.0	0.10
Pakistan	1	3.3	0.11
Philippines	1	35.0	1.14
Western Europe	12	728.0	23.69
Belgium	1	140.0	4.56
France	2	27.5	0.89
Ireland	1	11.6	0.38
Italy	1	23.5	0.76
Spain	1	44.0	1.43
Switzerland	1	3.0	0.10
United Kingdom	1	180.0	5.86

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Company Ownership of Refining Capacity, by Area (Continued)

Company	Number	Crude Capacity (Thousand b/d)	Percent of Total
TEXACO (Continued)			
Western Europe (Continued)			
W. Germany	3	203.6	6.63
Netherlands	1	94.8	3.08
United States	12	1,083.5	35.26
Canada	3	106.4	3.51
Latin America	12	504.3	16.41
Colombia	3	4.5	0.15
Ecuador	1	1.0	0.03
Guatemala	1	14.0	0.46
Honduras	1	9.4	0.31
Martinique	1	1.6	0.05
Panama	1	50.2	1.63
Trinidad	2	361.0	11.75
Venezuela	2	62.6	2.04
BRITISH PETROLEUM	41	2,825.8	100.00
Middle East	3	237.3	8.40
Kuwait	1	60.0	2.12
South Yemen	1	162.0	5.73
Turkey	1	15.3	0.54
Africa	9	123.8	4.38
Gabon	1	0.5	0.02
Ivory Coast	1	4.5	0.16
Kenya	1	6.1	0.22
Madagascar	1	0.9	0.03
Nigeria	1	12.0	0.42
Senegal	1	2.1	0.07
Sierra Leone	1	0.7	0.02
Sudan	1	11.0	0.39
South Africa	1	86.0	3.04
Asia/Pacific	4	190.9	6.76
Australia	2	153.3	5.42
New Zealand	1	13.0	0.46
Singapore	1	24.6	0.87
Western Europe	19	2,017.8	71.41
Belgium	1	157.4	5.57
Cyprus	1	2.2	0.08
France	4	324.4	11.48
Ireland	1	9.3	0.33
Netherlands	1	475.0	16.81
Sweden	1	110.0	3.89
Switzerland	1	18.2	0.64
United Kingdom	5	610.3	21.60
W. Germany	4	311.0	11.01
United States	4	170.4	6.03
Canada	2	85.6	3.03
MOBIL	40	2,502.9	100.00
Middle East	3	102.9	4.11
Lebanon	1	8.7	0.35
Saudi Arabia	1	43.8	1.75
Turkey	1	50.4	2.01
Africa	7	76.8	3.07
Gabon	1	2.0	0.08
Ivory Coast	1	8.0	0.32
Libya	2	3.6	0.14
Senegal	1	2.1	0.08
Sierra Leone	1	1.1	0.04
South Africa	1	60.0	2.40

Company	Number	Crude Capacity (Thousand b/d)	Percent of Total
MOBIL (Continued)			
Asia/Pacific	9	477.3	19.07
Japan	4	150.7	6.02
Australia	2	93.4	3.73
New Zealand	1	10.0	0.40
Philippines	1	48.2	1.93
Singapore	1	175.0	6.99
Western Europe	11	808.3	32.29
Cyprus	1	3.0	0.12
Italy	1	130.0	5.19
Netherlands	1	125.0	4.99
Portugal	1	2.0	0.08
United Kingdom	1	175.0	6.99
W. Germany	3	177.0	7.07
France	3	196.1	7.83
United States	8	932.6	37.26
Latin America	2	105.0	4.20
Barbados	1	3.0	0.12
Venezuela	1	102.0	4.08
STANDARD OIL (Calif.)	45	2,466.1	100.00
Middle East	3	260.8	10.58
Bahrain	1	125.0	5.07
Lebanon	1	4.4	0.18
Saudi Arabia	1	131.4	5.33
Africa	3	26.7	1.08
Kenya	1	2.8	0.11
Malagasy Republic	1	0.9	0.04
South Africa	1	23.0	0.93
Asia/Pacific	12	355.7	14.42
Japan	6	192.4	7.80
Australia	1	66.0	2.68
India	1	16.0	0.65
Korea	1	40.0	1.62
New Zealand	1	3.0	0.12
Pakistan	1	3.3	0.13
Philippines	1	35.0	1.42
Western Europe	8	494.2	20.04
Belgium	1	105.0	4.26
France	2	27.5	1.12
Italy	2	67.5	2.74
Netherlands	1	205.2	8.32
Spain	1	44.0	1.78
W. Germany	1	45.0	1.82
United States	14	1,003.2	40.68
Canada	2	81.8	3.32
Latin America	3	243.7	9.88
Bahamas	1	175.0	7.10
Guatemala	1	7.2	0.29
Venezuela	1	61.5	2.49
GULF	32	1,966.2	100.00
Middle East	1	60.0	3.05
Kuwait	1	60.0	3.05
Africa	1	2.8	0.14
Angola/Cabinda	1	2.8	0.14
Asia/Pacific	3	163.0	8.29
Japan	1	47.0	2.39
Taiwan	1	11.0	0.56
Korea	1	105.0	5.34

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 Company Ownership of Refining Capacity, by Area (Continued)

Company	Number	Crude Capacity (Thousand b/d)	Percent of Total
GULF (Continued)			
Western Europe	8	530.0	26.96
Denmark	1	94.5	4.81
Italy	1	78.0	3.97
Netherlands	1	94.0	4.78
Spain	2	96.8	4.92
Switzerland	1	16.2	0.82
United Kingdom	1	103.0	5.24
W. Germany	1	47.5	2.42
United States	7	833.6	42.40
Canada	8	226.4	11.51
Latin America	4	150.4	7.65
Colombia	1	0.5	0.03
Ecuador	1	7.0	0.36
Venezuela	1	105.1	5.35
Puerto Rico	1	37.8	1.92
ENI	18	789.2	100.00
Africa	9	91.1	11.54
Gabon	1	0.4	0.05
Ghana	1	25.3	3.21
Malagasy Republic	1	0.5	0.06
Morocco	1	25.0	3.17
Sierra Leone	1	0.3	0.04
Tanzania	1	8.5	1.08
Tunisia	1	10.7	1.36
Zaire	1	8.1	1.03
Zambia	1	12.3	1.56
Western Europe	9	698.1	88.46
Italy	8	633.1	80.22
W. Germany	1	65.0	8.24
CFP	17	1,064.1	100.00
Africa	6	31.2	2.93
Gabon	1	3.2	0.30
Ivory Coast	1	5.7	0.54
Malagasy	1	1.0	0.09
Mozambique	1	4.2	0.39
Senegal	1	2.1	0.20
South Africa	1	15.0	1.41
Western Europe	9	1,009.4	94.86
France	4	780.2	73.32
Italy	3	131.1	12.32
Portugal	1	3.6	0.34
United Kingdom	1	94.5	8.88
Asia/Pacific	1	20.0	1.88
Australia	1	20.0	1.88
Latin America	1	3.5	0.33
Martinique	1	3.5	0.33

Domestic and Other Ownership of Refining Capacity (Excluding CFP),
by Area

Country	Name	Number	Crude Capacity (Thousand b/d)	Percent of Total
TOTAL		452	20,502.8	100.00
MIDDLE EAST		7	359.2	1.75
Jordan		1	14.1	0.07
Kuwait			185.6	0.91
	Aminoil	1	132.0	0.64
	Local	1	53.6	0.26
Saudi Arabia			71.0	0.36
	Japan	1	24.0	0.12
	Getty	1	50.0	0.24
Turkey			85.5	0.42
	Domes	2	85.5	0.42
AFRICA		6	47.0	0.23
Angola/Cabinda	Petrofina	1	12.8	0.06
Gabon	Petrofina	1	0.6	Negl.
Liberia	Others	1	3.3	0.02
Senegal	Others	1	1.1	0.01
South Africa	Others	2	29.2	0.14
ASIA/PACIFIC		68	4,655.4	22.71
Japan			4,170.4	20.34
	Domes	48	4,007.9	19.55
	Getty	2	162.5	0.79
Australia			85.0	0.41
	Domes	1	60.0	0.29
	Amoco	1	25.0	0.12
Bangladesh			9.2	0.04
	Burmah	1	9.2	0.04
Brunei-Malaysia			7.8	0.04
	Pub	1	7.8	0.04
Guam			29.5	0.14
	Guam Oil Ref. Co.	1	29.5	0.14
India			99.8	0.49
	Burmah	2	67.1	0.33
	Amoco	1	7.3	0.04
	Others	1	11.3	0.06
	Phillips	1	14.1	0.07
Korea			130.0	0.63
	Local	2	105.0	0.51
	Union	1	25.0	0.12
New Zealand			16.0	0.08
	Other	1	16.0	0.08
Pakistan			11.4	0.06
	Burmah	1	11.4	0.06
Philippines			50.8	0.25
	Local	2	50.8	0.25
Thailand			45.5	0.22
	Local	1	15.5	0.22
WESTERN EUROPE		70	5,041.9	24.59
Belgium			310.5	1.51
	SAB	1	60.0	0.29
	Petrofina	1	152.5	0.74
	Occidental	1	83.3	0.41
	Others	1	14.7	0.07
Cyprus			2.2	0.01
	Petrofina	1	2.2	0.01
France			348.0	1.70
	Public	7	348.0	1.70

Footnote at end of table.

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Domestic and Other Ownership of Refining Capacity (Excluding CFP),
by Area (Continued)

Country	Name	Number	Crude Capacity (Thousand b/d)	Percent of Total
WESTERN EUROPE (Con.)				
Greece			140.0	0.68
	Nicos	1	40.0	0.20
	Niarchos	1	100.0	0.49
Italy			2,349.4	11.46
	Standard (Ind.)	1	78.0	0.38
	Getty	1	39.9	0.19
	Petrofina	1	57.8	0.28
	Phillips	1	10.1	0.05
	Others	17	2,163.6	10.55
Netherlands			6.5	0.03
	Other	1	6.5	0.03
Portugal			67.8	0.33
	Other	2	67.8	0.33
Spain			703.8	3.43
	Marathon	1	33.6	0.16
	Others	7	670.2	3.27
Sweden			38.0	0.19
	A.B. Nynas	3	38.0	0.19
Switzerland			22.7	0.11
	Other	1	22.7	0.11
United Kingdom			293.5	1.43
	Continental	1	86.0	0.42
	Petrofina	1	94.5	0.46
	Phillips	1	50.0	0.24
	Other	3	63.0	0.31
W. Germany			759.5	3.70
	Marathon	2	114.3	0.56
	Wintershall	3	173.9	0.85
	Gelsenburg	2	216.0	1.05
	Petrofina	1	37.8	0.18
	Occidental	2	20.3	0.10
	Continental	1	12.8	0.06
	Other	3	184.4	0.90
UNITED STATES		203	8,163.4	39.82
	Standard Oil (Ind.)	10	1,065.0	5.19
	Atlantic Richfield	6	789.8	3.85
	Union Oil	4	487.0	2.38
	Sun Oil	4	427.0	2.08
	Phillips Petroleum	6	403.7	1.97
	Ashland	7	358.2	1.75
	Shell (U.S.)	8	349.4	1.70
	Marathon	3	314.0	1.53
	Continental Oil	5	306.0	1.49
	Cities Service	1	268.0	1.31
	Standard Oil (Ohio)	2	213.8	1.04
	Getty	2	186.4	0.91
	Champlin Petroleum	3	140.5	0.69
	Murphy Oil	2	129.5	0.63
	Coastal States	1	127.9	0.62
	Koch	1	106.9	0.52
	Clark Oil	2	104.0	0.51
	Crown Central Petroleum	1	100.0	0.49
	Southwestern Oil & Refining	1	100.0	0.49

Footnote at end of table.

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Domestic and Other Ownership of Refining Capacity (Excluding CFP),
by Area (Continued)

Country	Name	Number	Crude Capacity (Thousand b/d)	Percent of Total
UNITED STATES (Continued)				
	Amerada-Hess	2	98.5	0.48
	Petrofina S.A.	3	86.4	0.42
	Occidental	1	6.6	0.03
	Others*	128	1,994.8	9.73
CANADA		74	798.6	3.90
	Ultramar	2	113.0	0.55
	Shaheen	1	105.0	0.51
	Sun	1	38.0	0.19
	Petrofina	1	47.8	0.23
	Others	69	494.8	2.41
LATIN AMERICA		24	1,437.3	7.01
Antigua	Natomas	1	17.3	0.08
Argentina	Domes Private	4	21.7	0.11
Bahamas	New England Pet.	1	325.0	1.59
Brazil	Local Private	3	48.8	0.24
Dominican Republic	Other	1	16.0	0.08
Ecuador			27.2	0.13
	Burmah	1	13.9	0.07
	Other	1	13.3	0.06
Honduras	Other	1	4.6	0.02
Panama	Ultramar	1	24.8	0.12
Paraguay	Local	1	5.0	0.02
Peru	Atlantic Richfield	1	2.5	0.01
Venezuela			84.4	0.41
	Phillips	1	5.0	0.02
	Sinclair	2	45.4	0.22
	Other	2	34.0	0.17
Puerto Rico			270.0	1.32
	Commonwealth	1	185.0	0.90
	Sun	1	85.0	0.41
Virgin Islands	Amerada-Hess	1	590.0	2.88

*Includes all US refiners with less than 100,000 b/d of capacity worldwide.

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Government Ownership of Refining Capacity (Excluding ENI), by Area

Country	Name	Number	Crude Capacity (Thousand b/d)	Percent of Total
TOTAL		135	7,398.7	100.00
MIDDLE EAST		21	1,682.8	22.74
Iran	NIOC	5	660.0	8.92
Iraq		6	168.5	2.28
Kuwait	Gov't	2	263.4	3.52
Israel		2	212.0	2.87
Lebanon		1	36.0	0.49
Qatar		1	0.6	0.08
Saudi Arabia		2	161.0	2.18
Syria		1	51.3	0.69
Turkey		1	130.0	1.76
AFRICA		30	519.3	7.02
Algeria	Sonatrach	4	115.3	1.56
Angola-Calinda		1	8.9	0.12
Egypt		4	180.0	2.43
Ethiopia		1	14.4	0.19
Gabon	Gov't	1	4.3	0.06
	ELF Union	1	3.2	0.04
Ivory Coast	Gov't	1	11.1	0.15
	ELF Union		4.4	0.06
Kenya		1	24.0	0.32
Libya	National Oil Co.	2	4.8	0.06
Malagasy	Gov't	1	2.1	0.03
	ELF Union	1	4.9	0.07
Morocco	Gov't	1	29.3	0.40
	French Gov't	1	4.3	0.06
Mozambique	Port. Gov't	1	12.8	0.17
Nigeria		1	36.0	0.49
Senegal	Nat Bank	1	1.8	0.02
	ELF Union	1	4.3	0.06
Sierra Leone		1	5.0	0.07
South Africa	NIOC	1	8.8	0.12
Tanzania		1	8.5	0.11
Tunisia		1	10.7	0.14
Zaire		1	8.1	0.11
Zambia		1	12.3	0.17
ASIA PACIFIC		25	1,215.9	16.43
Bangladesh		1	21.4	0.29
Burma		2	25.3	0.34
Taiwan		1	199.0	2.69
India		7	281.7	3.81
India	NIOC	1	7.3	0.10
Indonesia		6	427.7	5.78
Korea		1	105.0	1.42
Pakistan		3	44.3	0.60
Sri Lanka		1	38.0	0.51
Thailand		2	66.2	0.89
WESTERN EUROPE		22	1,771.0	23.91
Austria	OCMV	1	220.0	2.97
Cyprus		1	5.4	0.07
Finland	Neste Oy	2	196.0	2.65
France	Antar	4	261.7	3.54
	ELF Union	5	380.2	5.14
Greece	Helenic Pet.	1	97.6	1.32
Portugal	Sacor	2	36.6	0.49
Spain		3	242.4	3.28
W. Germany		2	273.3	3.69
	ELF Union	1	57.8	0.78

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 Government Ownership of Refining Capacity (Excluding ENI),
 by Area (Continued)

Country	Name	Number	Crude Capacity (Thousand b/d)	Percent of Total
LATIN AMERICA		37	2,209.7	29.87
Argentina	YPF	7	377.8	5.11
Bolivia		5	25.5	0.34
Brazil	Petrobras	5	743.0	10.04
Chile	ENAP	3	123.5	1.67
Colombia		2	111.5	1.51
Costa Rica		1	7.6	0.10
Dominican Republic		1	15.0	0.20
Martinique	ELF Union	1	3.5	0.05
Mexico	Permex	6	625.0	8.45
Peru		4	104.3	1.41
Uruguay		1	43.0	0.58
Venezuela	CVP	1	30.0	0.41

**Oil Company Control of Oil Production in OPEC Countries
January 1974**

The following table lists 13 foreign oil companies or foreign operating groups that control about three-fourths of the crude oil production in the OPEC countries. This list includes all the companies that produce more than 150,000 b/d. The state oil companies in Iraq, Algeria, and Libya control more than 50% of the oil not controlled by these companies. The remainder is controlled by several producer-state companies and small foreign companies. The following tabulation is a summary of the following table:

Company	Thousand b/d	
	Maximum ¹	Minimum ²
Total	25,865	19,587
International "Majors" subtotal	23,079	17,574
British Petroleum	4,800	3,645
Exxon	4,560	3,800
Texaco	3,357	2,489
Standard Oil (California)	3,142	2,275
Royal Dutch/Shell	2,985	2,430
Gulf	2,590	1,660
Mobil	1,645	1,275
Occidental	310	150
Continental	295	160
Marathon	235	115
French	1,261	1,013
Italian	215	140
Japanese	470	435
Total OPEC production	30,350	

¹ The maximum column shows the amount of oil physically produced by the selected international oil companies (those with production of 150,000 b/d or more). It does not take into account government ownership through participation, nationalization, or sales of royalty oil. It is certain the companies will not have this amount of oil to sell.

² The minimum column shows the amount of oil the companies control through equity ownership. This amount could be reduced further by producing government's exercising their option to take royalties in kind (in most cases, 12½% of company equity oil) rather than in cash. This column is almost certain to be too low because we expect the governments to continue to sell a large share of state-owned oil back to the companies.

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 Estimated Oil Company Control of Oil Production
 in OPEC Countries, January 1974

Company/Country	Thousand b/d	
	Maximum	Minimum
Total	25,865	19,587
International "Majors"	23,079	17,574
Abu Dhabi (UAE)	685	515
Ecuador	220	220
Indonesia	1,080	430
Iran	4,815	4,815
Iraq	290	290
Kuwait	2,560	1,030
Libya	470	230
Nigeria	2,124	1,344
Qatar	440	175
Saudi Arabia	7,500	5,630
Venezuela	2,895	2,895
British Petroleum	4,800	3,645
Abu Dhabi (UAE)	350	260
Iran	2,160	2,160
Iraq	200	200
Kuwait	1,280	515
Nigeria	750	485
Qatar	60	25
Exxon	4,560	3,800
Abu Dhabi (UAE)	85	65
Indonesia	35	15
Iran	380	380
Libya	275	135
Qatar	30	10
Saudi Arabia	2,250	1,690
Venezuela	1,505	1,505
Texaco	3,357	2,489
Ecuador	110	110
Indonesia	505	200
Iran	380	380
Nigeria	7	4
Saudi Arabia	2,250	1,690
Venezuela	105	105
Standard Oil (California)	3,142	2,275
Indonesia	505	200
Iran	380	380
Nigeria	7	5
Saudi Arabia	2,250	1,690
Royal Dutch/Shell	2,985	2,430
Abu Dhabi (UAE)	165	125
Iran	755	755
Iraq	90	90
Libya	115	55
Nigeria	750	485
Qatar	320	130
Venezuela	790	790
Gulf	2,590	1,660
Ecuador	110	110
Iran	380	380
Kuwait	1,280	515
Nigeria	405	240
Venezuela	415	415
Mobil	1,645	1,275
Abu Dhabi (UAE)	85	65
Indonesia	35	15
Iran	380	380

Estimated Oil Company Control of Oil Production
in OPEC Countries, January 1974
(Continued)

Company/Country	Thousand b/d	
	Maximum	Minimum
Mobil (Continued)		
Libya	80	40
Nigeria	205	125
Qatar	30	10
Saudi Arabia	750	560
Venezuela	80	80
Occidental		
Libya	310	150
Continental		
Dubai (UAE)	60	45
Libya	235	115
Marathon		
Libya	235	115
French (CFP, ERAP, Aquataine)		
Abu Dhabi (UAE)	1,261	1,013
Algeria	335	150
Algeria	215	215
Dubai (UAE)	50	50
Iran	325	325
Iraq	200	200
Libya	6	3
Nigeria	70	45
Qatar	60	25
Italian (ENI)		
Iran	215	140
Iran	55	55
Libya	125	60
Nigeria	35	25
Japanese		
Abu Dhabi (UAE)	470	435
Abu Dhabi (UAE)	150	115
Kuwait	160	160
Saudi Arabia	160	160
Total OPEC production	30,350	